IC VA HEALTH CARE SYSTEM IOWA CITY, IOWA SPECIALTY CLINIC ADDITION VA PROJECT 636-315

#### AMENDMENT #2 APRIL 27, 2016

#### SPECIALTY CLINIC ADDITION VA HEALTH CARE SYSTEM IOWA CITY, IOWA

#### **VA PROJECT #636-315**

BID DATE:	P.M. CENTRAL TIME
The information contained in this Addendum modifies the Project Manual and on the Drawings and is hereby	
Acknowledge receipt of this Addendum by placing the Bid Form.	e appropriate addendum number in the blank on the
AMENDME	NT INDEX
APPLICABLE TO THE PROJECT MANUAL:	None.
APPLICABLE TO THE DRAWINGS:	Item #1 through Item #1 inclusive.
ATTACHMENT(S):	SHEETS: 50-P2, 50-P7, 50-P11, 50-P12, 50-M4, 50-M7, 50-M8, 50-M9, 50-M10, 50-M13, 50-M15, 50-M19, 50-M24, 50-M26, 50-M28, 50-M29, 50-E3

IC VA HEALTH CARE SYSTEM IOWA CITY, IOWA SPECIALTY CLINIC ADDITION VA PROJECT 636-315

#### APPLICABLE TO THE PROJECT MANUAL:

NONE

#### **APPLICABLE TO THE DRAWINGS:**

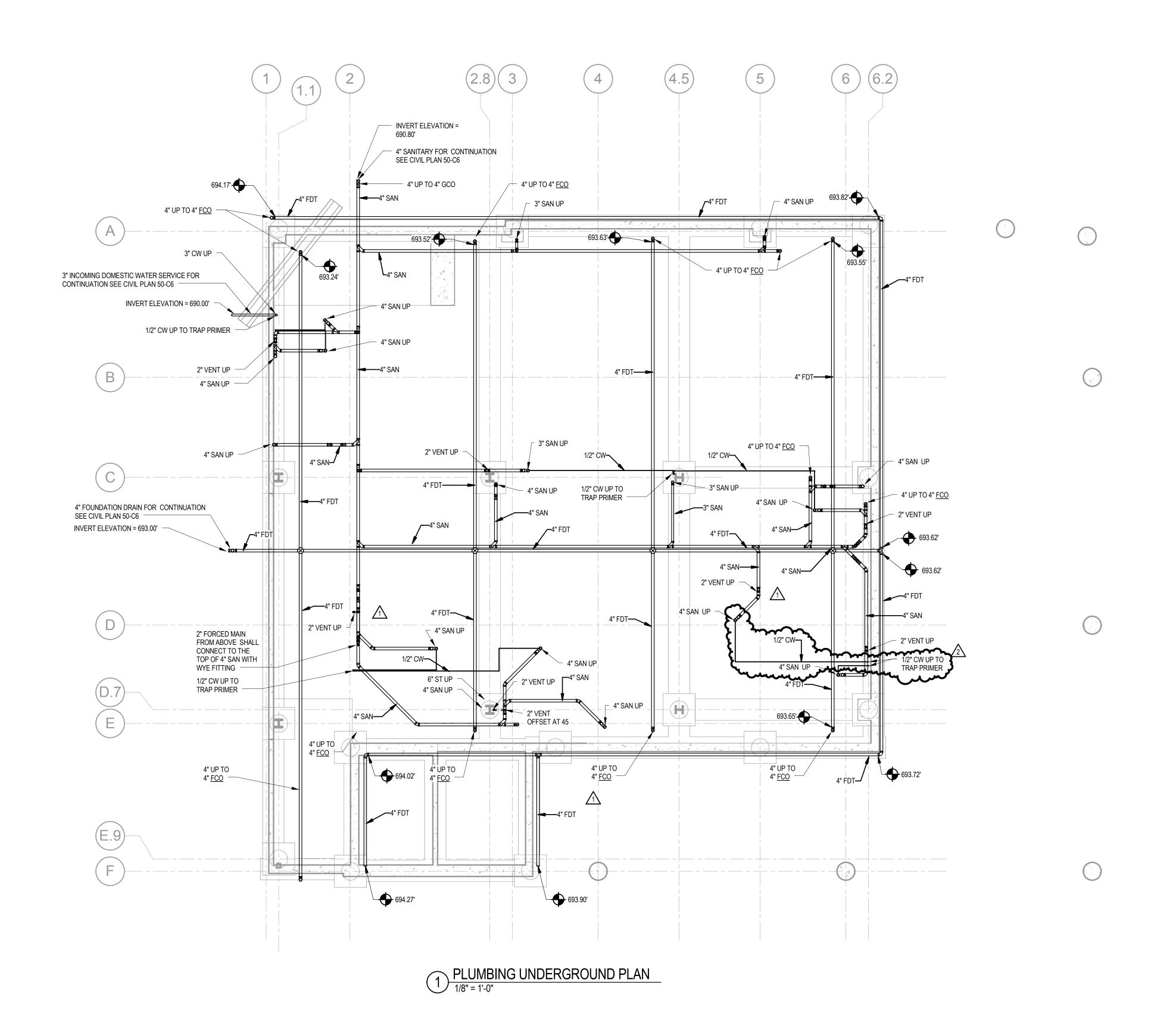
ITEM #1 SHEET 50-E4 and 50-E5

A. **REVISE** each exam room, duplex receptacle located within 6' of the exam room sink shall be a ground fault interrupter receptacle.

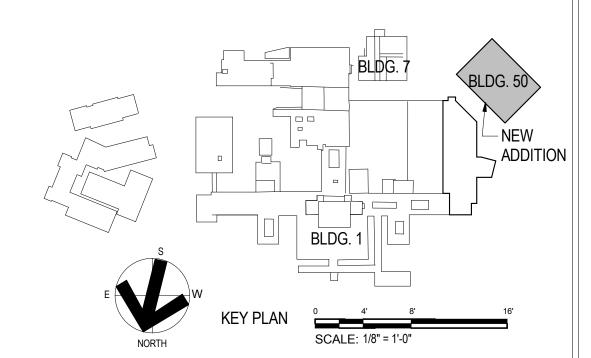
<u>SUPPLEMENTAL DRAWINGS</u>: Indicating supplemental drawings issued for reference only, all information shown to be verified in field.

NONE

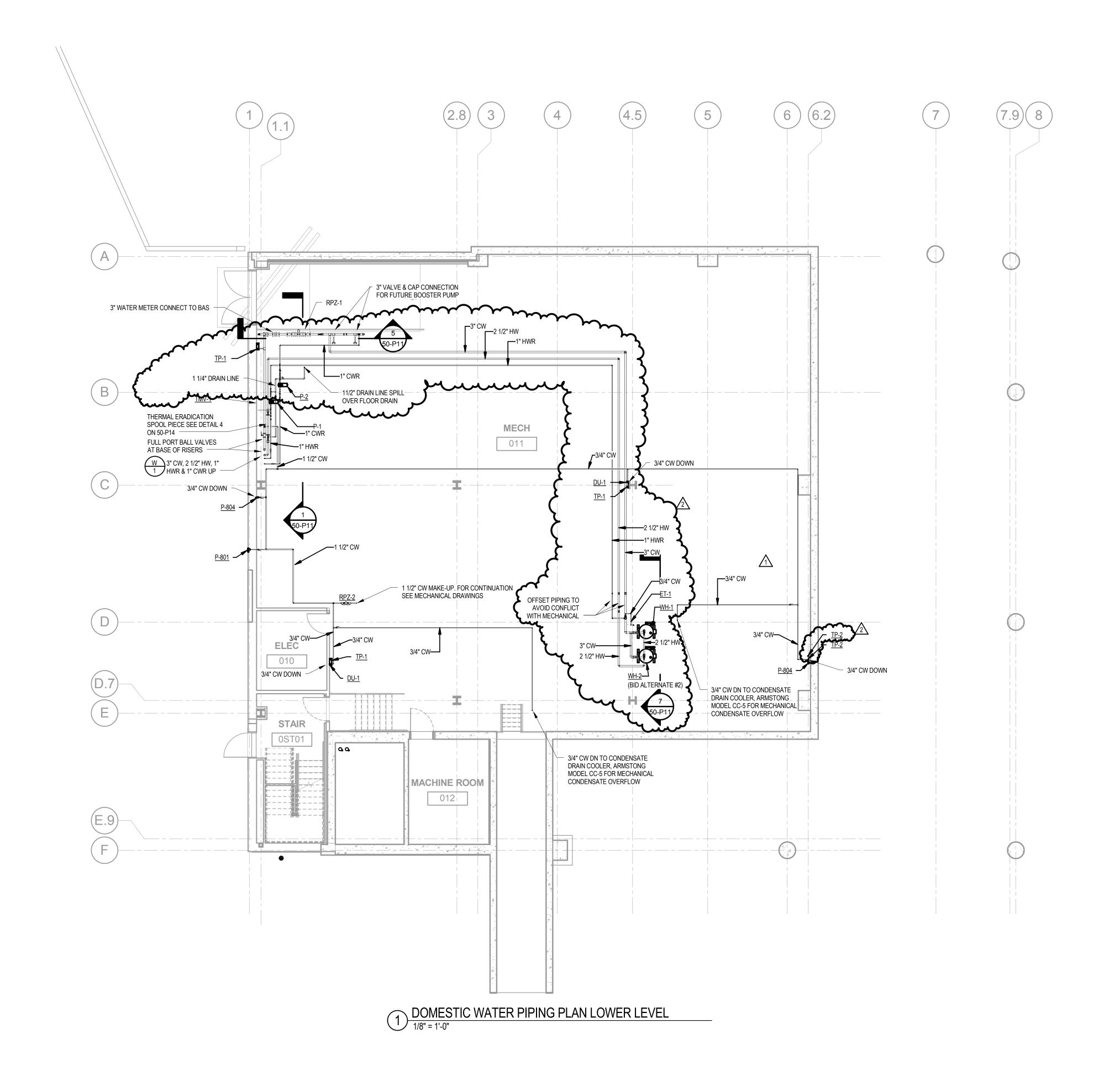
**END OF AMENDMENT #2** 



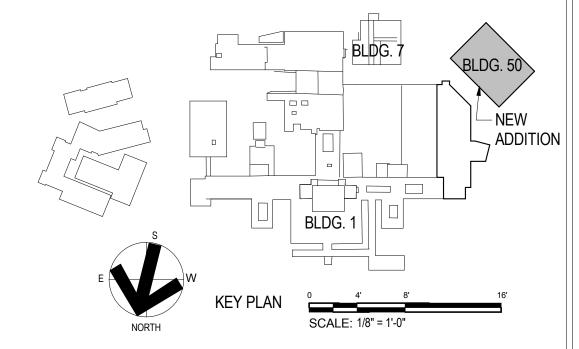
VA FORM 08-6231, FEB. 1983



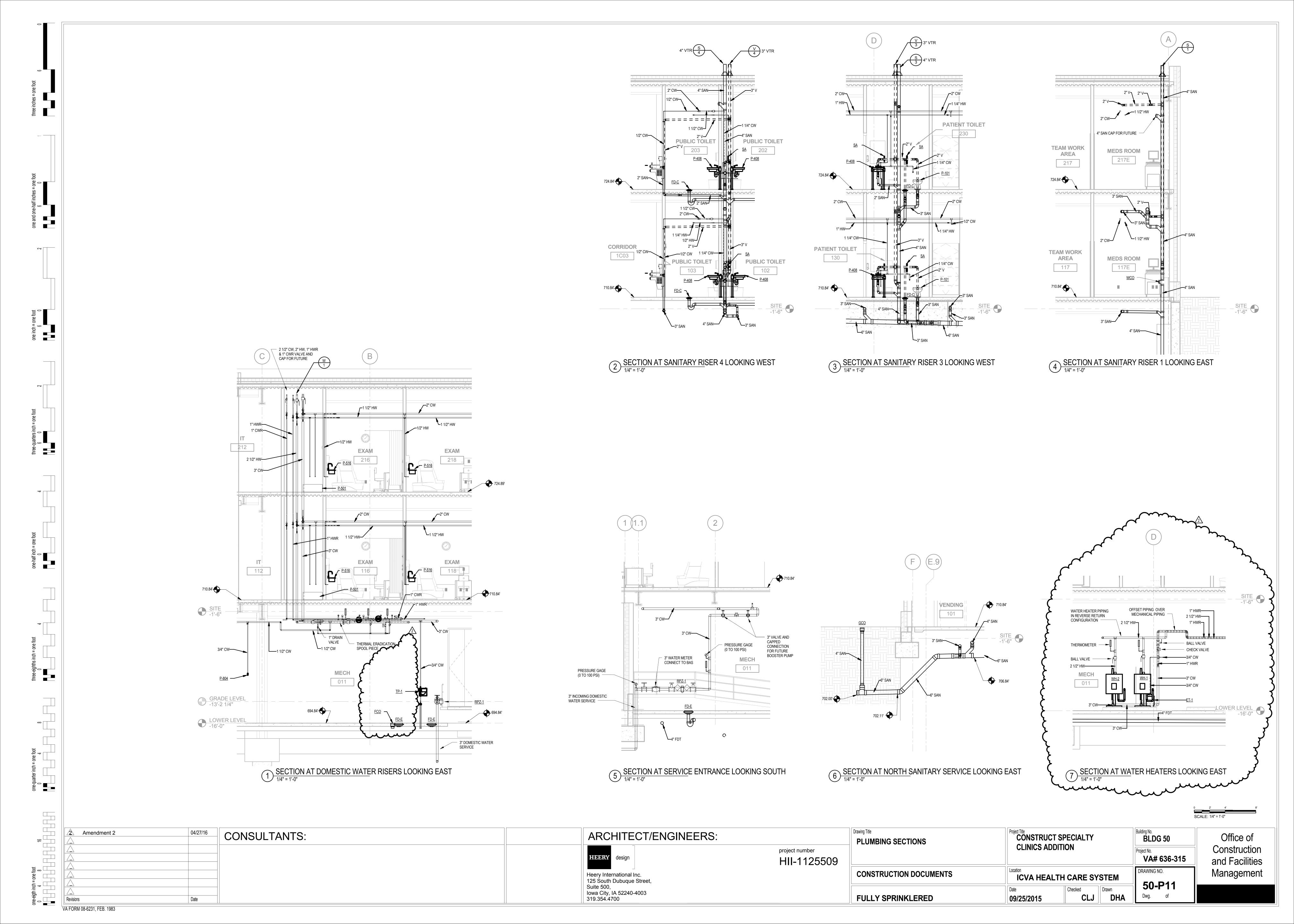
99	⚠ Amendment 1         04/25/2           ⚠ Amendment 2         04/27/2	ARCHITECT/ENGINEERS:	Drawing Title PLUMBING UNDERGROUND PLAN	Project Title CONSTRUCT SPECIALTY	Building No. BLDG 50	Office of
		HEERY design project number HI-1125509		CLINICS ADDITION	Project No. <b>VA# 636-315</b>	Construction and Facilities
		Heery International Inc. 125 South Dubuque Street,	CONSTRUCTION DOCUMENTS	ICVA HEALTH CARE SYSTEM	DRAWING NO.	Management
	Revisions Date	Suite 500, Iowa City, IA 52240-4003 319.354.4700	FULLY SPRINKLERED	Date	<b>50-P2</b> Dwg. of	

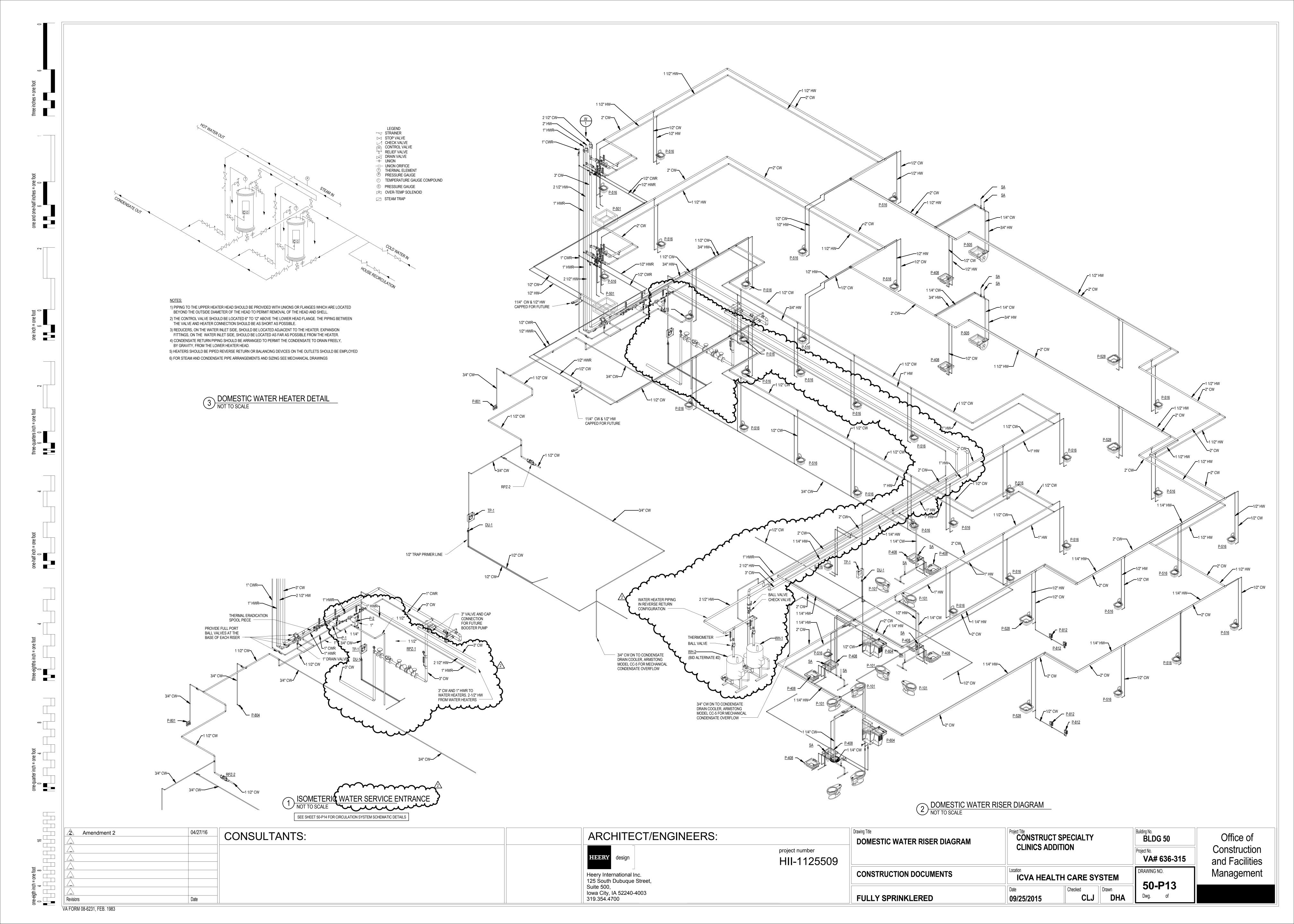


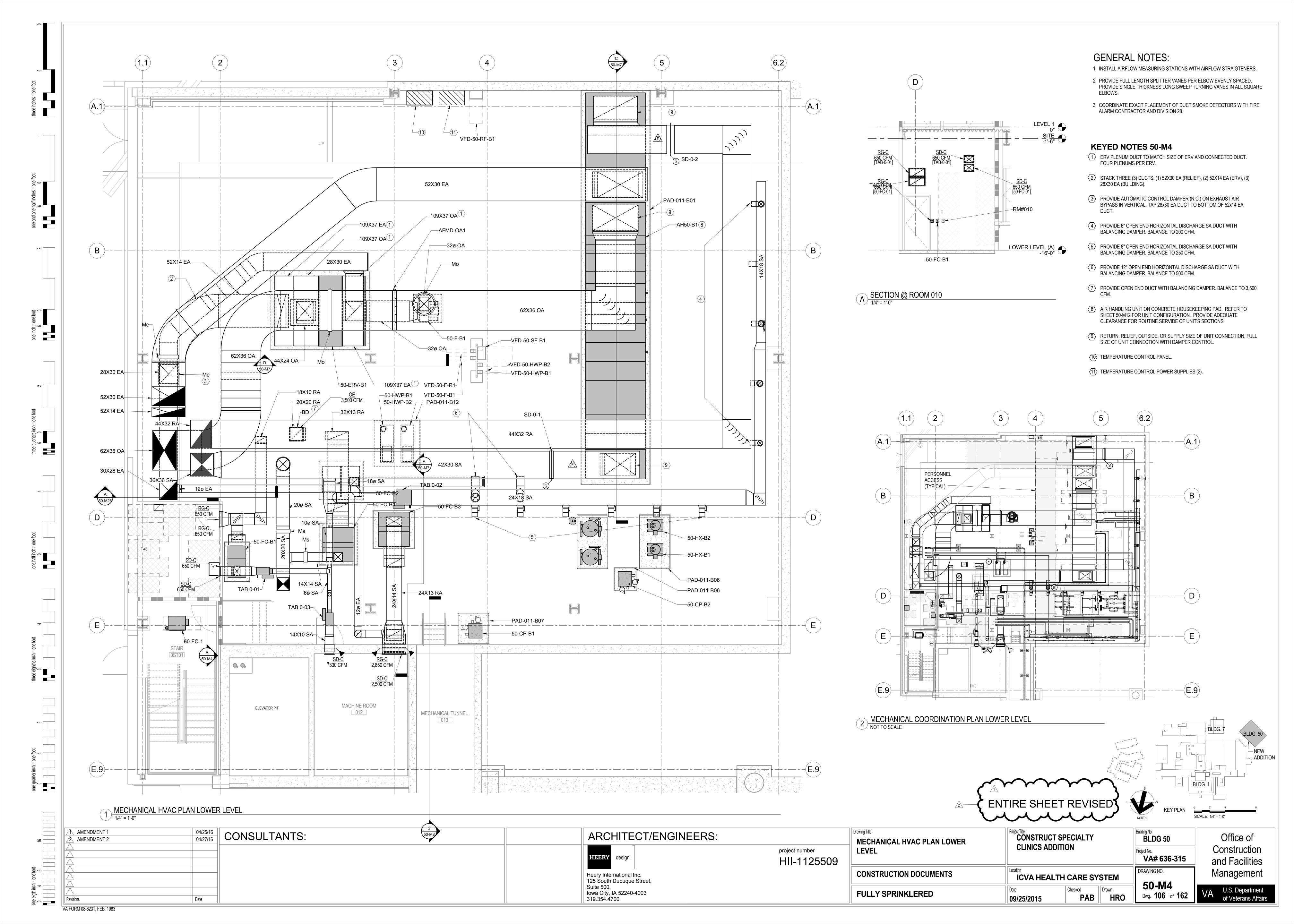
VA FORM 08-6231, FEB. 1983

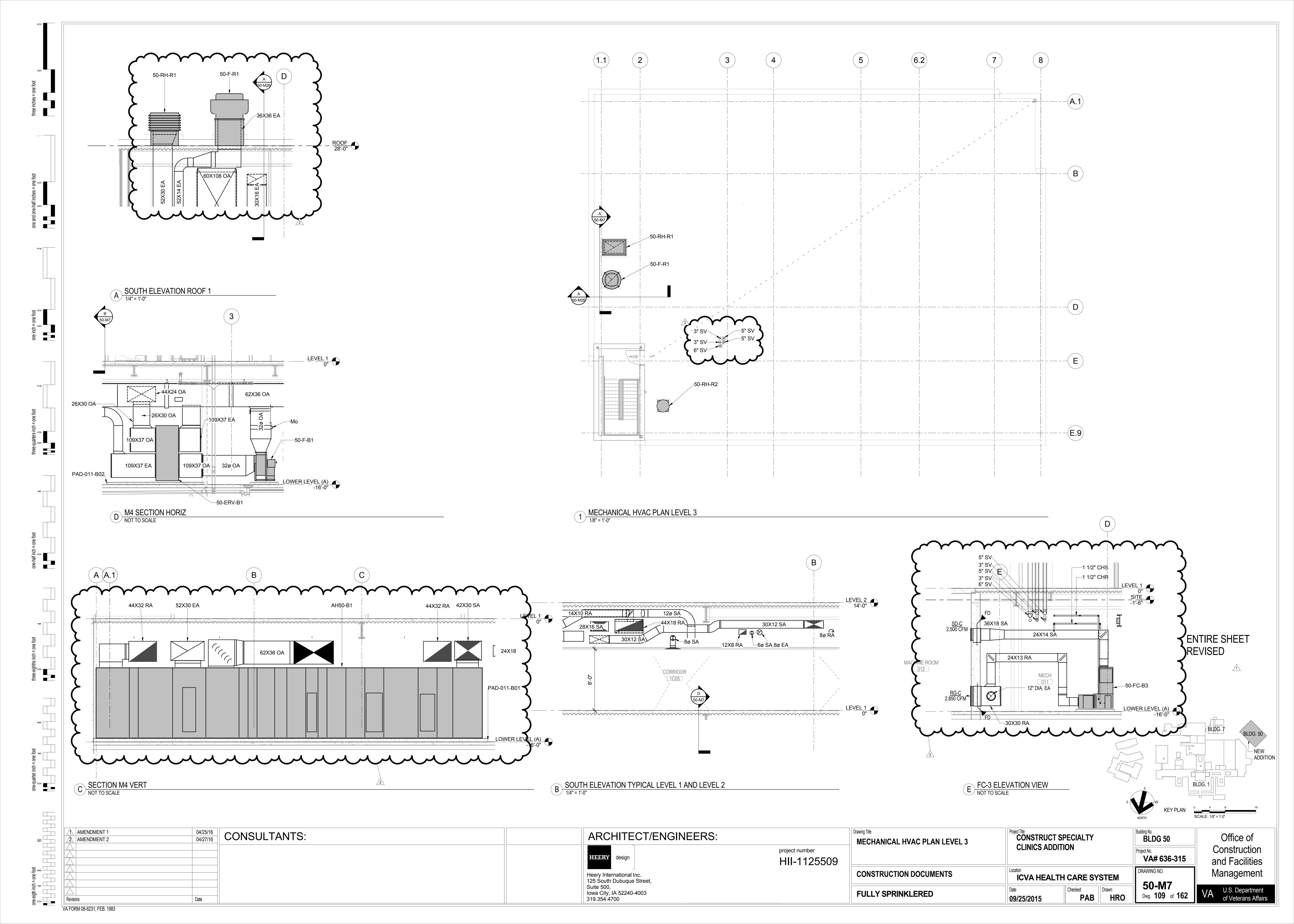


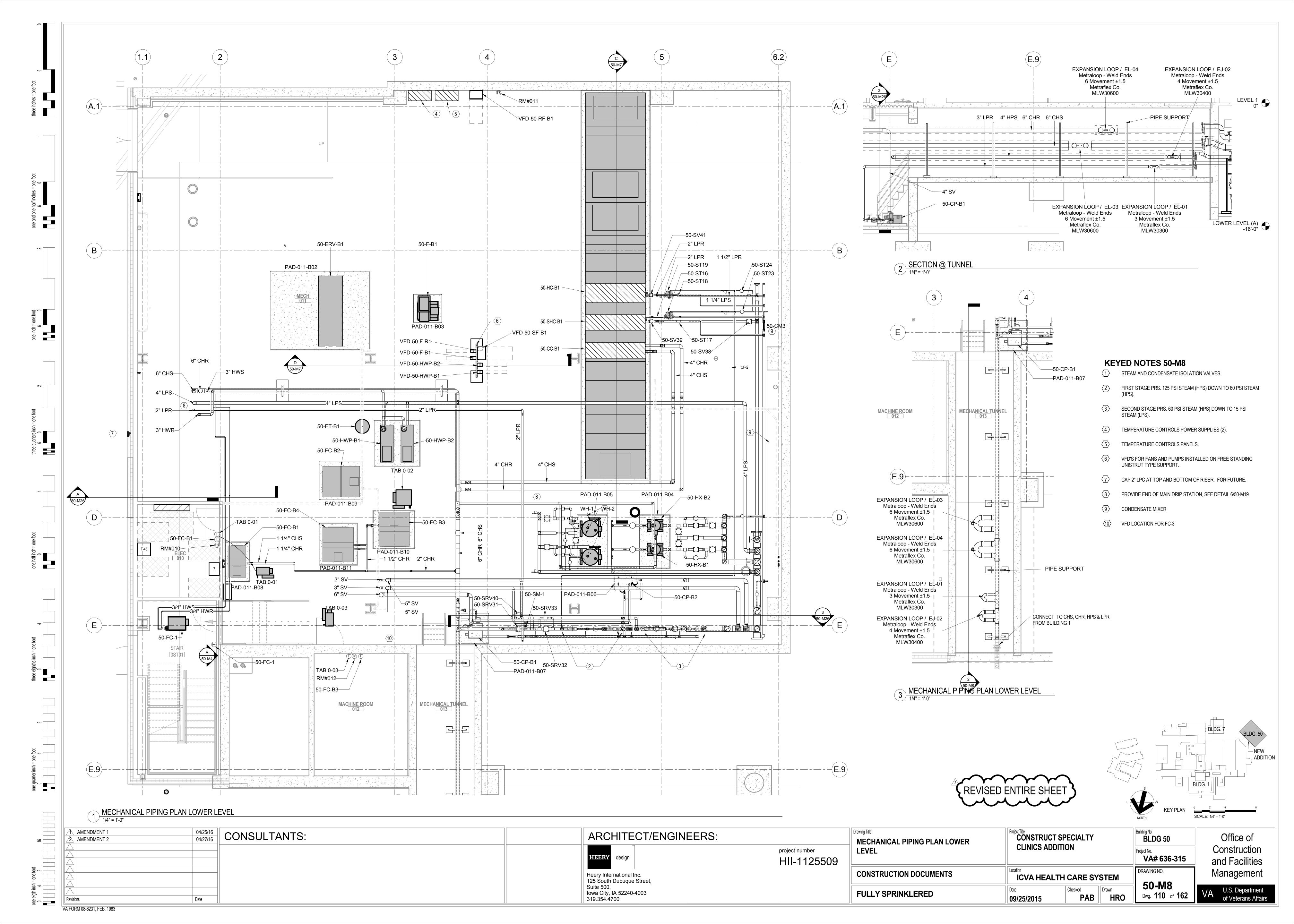
91	⚠ Amendment 1       04/25/16         ⚠ Amendment 2       04/27/16	CONSULTANTS:	ARCHITECT/ENGINEERS:	Drawing Title  DOMESTIC WATER PLAN LOWER	Project Title CONSTRUCT SPECIALTY	Building No. <b>BLDG 50</b>	Office of
			project numbe HEERY design		CLINICS ADDITION	Project No. <b>VA# 636-315</b>	Construction and Facilities
<b>∞</b>			Heery International Inc. 125 South Dubuque Street,	CONSTRUCTION DOCUMENTS	ICVA HEALTH CARE SYSTEM	DRAWING NO.	Management
	Revisions Date		Suite 500, lowa City, IA 52240-4003 319.354.4700	FULLY SPRINKLERED	Date Checked Drawn DHA	<b>50-P7</b> Dwg. of	

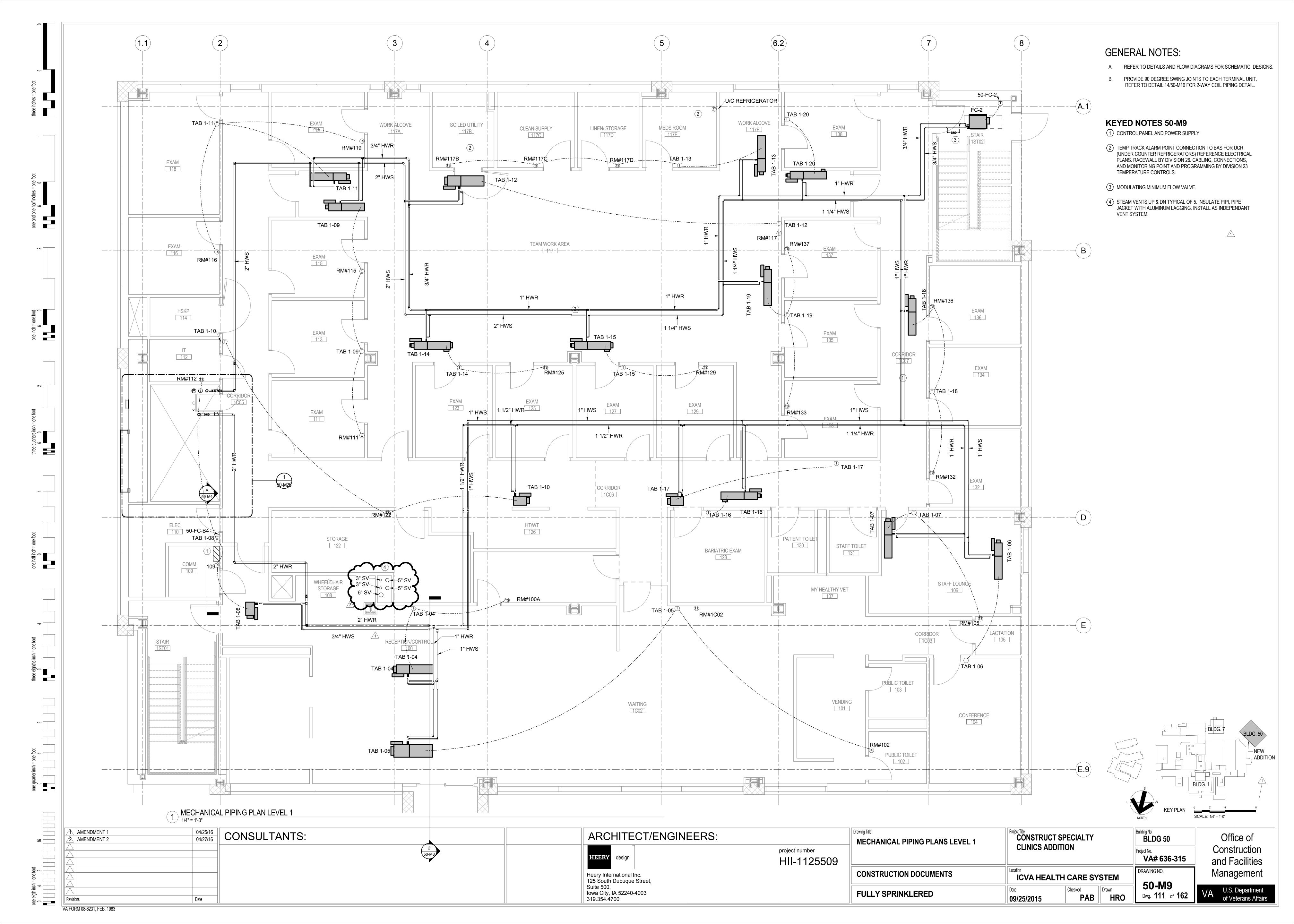


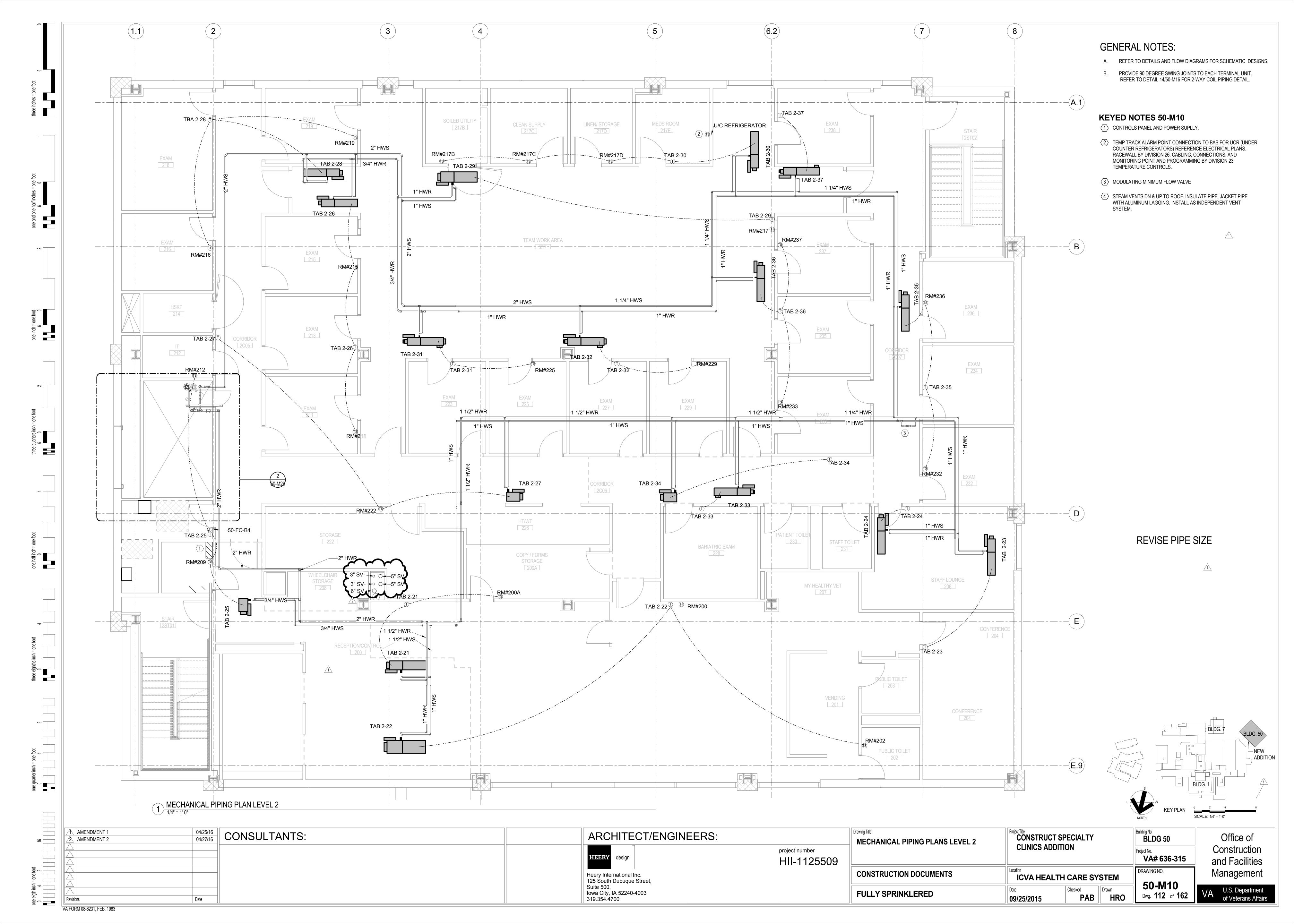












	ΕN	ERGY					- A T (				ATE HX)	
TAG	SYSTEM	LOCATION	MAX. (CFM)	MARY AIR INTERNAL STATIC MAX. (IN. WG)	MAX. (CFM)	IAUST AIR INTERNAL STATIC MAX. (IN. WG)	FILTER MERV	SENSIBLE (%)	FECTIVENES WINTER	SS SUMMER (%)	BASIS OF DESIGN MANUFACTURER AND MODEL OR TYPE	NOTES
50-ERV-B1	AH50-B1	MECHANICAL ROOM / 011	8,500	0.90	6,500	0.90	8	82	77	65	RENEWAIRE PA12X	1,2,3,4,5,6
NOTES:												

1. MINIMUM EFFECTIVENESS 60%.

2. EQUIPMENT SELECTIONS BASED ON 750 FT ELEVATION.

3. PULL-PULL BLOWER ORIENTATION FOR SUPPLY AND EXHAUST AIR.

			PRI	MARY AIR	EXF	HAUST AIR		EF	ECTIVENE	SS	BASIS OF DESIGN	
TAG	SYSTEM	LOCATION		INTERNAL		INTERNAL	FILTER	SENSIBLE	WINTER	SUMMER	MANUFACTURER	NOTES
			MAX.	STATIC MAX.	MAX.	STATIC MAX.	MERV				AND MODEL	
			(CFM)	(IN. WG)	(CFM)	(IN. WG)		(%)	(%)	(%)	OR TYPE	
50-ERV-B1	AH50-B1	MECHANICAL ROOM / 011	8,500	0.90	6,500	0.90	8	82	77	65	RENEWAIRE PA12X	1,2,3,4,5,6

4. STACK AND MANIFOLD DUCT CONNECTIONS. PROVIDE DUCT-PLENUM MOUNTED ACCESS PANELS FOR FILTER ACCESS. 5. PROVIDE REQUIRED SERVICE CLEARANCE.

5. EQUIPMENT SELECTIONS BASED ON 750 FT ELEVATION.

6. INSTALL ON 6 INCH HOUSEKEEPING PAD.

												Al	R HANDLING U	NIT SC	HEDULI	E									
								AIR F	LOW				OUDDLY FAN RETURN OR			AFTER	FINAL	HEAT							
MARK	LOCATION	AREA AND/OR BLDG SERVED	TYPE	AIR FLOW	SUF	PPLY	MIN	N SA	MIN	OA	RETU	JRN	SUPPLY FAN RELIEF FAN MARK	EXHAUST FAN MARK	PREFILTER MARK	FILTER MARK	FILTER MARK	DECOVEDY	PREHEAT COIL MARK	COOLING COIL MARK	REHEAT COIL	HUMIDIFIER MARK	MANUFACTURER	MODEL NO	REMARKS
					CFM	[L/s]	CFM	[L/s]	CFM	[L/s]	CFM	[L/s]	IWARK			WARN	IVIARN	IVIARN							
AH50-B1	MECHANCIAL 011	LOWER LEVER AND LEVELS 1 & 2	MODULAR	VAV	27000	[ 13000 ]	14700	[ 6900 ]	8500	[ 4700 ]	17000	[ 8000 ]	50-SF-B1A, B1B, B1C, B1D	50-EF-R1	50-PF-B1	50-AF-B1	-	50-ERV-B1	50-HC-B1	50-CC-B1	AT TU	50-SHC-B1	TRANE PERFORMANCE CLIMATE CHANGER	PCCL-50 TALL	1, 2, 3, 4, 5, 6, 7, 8 10,  11
						[ ]		[ ]		[ ]		[]													
NOTES:	REFERENCE 2/	/50-M13 FOR UNIT DE	ETAIL.					_							_		_		_			_			

NOTES: REFERENCE 2/50-M13 FOR UNIT DETAIL.

1. MECHANICAL CONTRACTOR TO FIELD INSTALL UV LIGHTS AT COOLING COIL DISCHARGE.

2. VARIABLE FREQUENCY DRIVES FOR FANS PROVIDED BY CONTROLS CONTRACTOR, INSTALLED BY ELECTRICAL CONTRACTOR.

3. HUMIDIFIER DISPERSION TUBE SECTION FIELD INSTALLED BY MECHANICAL CONTRACTOR.

4. PROVIDE WITH ECONOMIZER DAMPERS AND AIR BLENDER SECTION.

6. ALL AUTOMATIC CONTROL DEVICES, AIR FLOW MEASURING STATIONS, AND ACTUATORS PROVIDED AND INSTALLED BY CONTROLS CONTRACTOR. REFERENCE SPEC 23-0923. 7. DAMPERS PROVIDED BY AIR HANDLER MANUFACTURER.

8. SUPPLY AIRFLOW MEASURING STATION TO BE FAN INLET TYPE. FAN INLET AIRFLOW TRAVERSE PROBE, FACE MOUNTED, CALIBRATED TO EXACT INSTALLED FAN.

9. INSTALL AIR HANDLER ON 6 INCH HOUSEKEEPING PAD.

10. PROVIDE SEPARATE 120 VOLT 15 AMP CIRCUIT FOR INTERNAL LIGHTSWITH TIMER. PROVIDE SEPARATE 120 VOLT 15 AMP CIRCUIT FOR UV LIGHT SYSTEM. PROVIDE SEPARATE 120 VOLT 15 AMP CIRCUIT FOR SERVICE RECEPTACLE.

11. ALL INTERNAL WIRING TO BE INSTALLED IN CONDUIT OR FLEXIBLE CONDUIT TO PREVENT UV DEGRADATION. 12. ROTATE SUPPLY FAN ORIENTATION TO PREVENT AIRFLOW SYSTEM AFFECTS WITH CONNECTED DUCT.

	EQUIPMENT INFO	PRMATION		PAD	DIMENSION	S
TAG	EQUIP. SERVED	WIDTH	LENGTH	THICKNESS	WIDTH	LENGTH
LOWER LEVEL	. (A)					
PAD-011-B01	AH50-B1	8'-0"	50'-3"	6"	9'-0"	51'-3"
PAD-011-B02	ERV-B1	9'-3"	12'-0"	4"	10'-3"	13'-0"
PAD-011-B03	50-F-B1	2'-8"	2'-8"	4"	3'-8"	3'-8"
PAD-011-B04	HEATING SYSTEM	3'-0"	6'-0"	6"	4'-0"	7'-0"
PAD-011-B05	DOMESTIC WATER HEATERS	3'-0"	6'-0"	6"	4'-0"	7'-0"
PAD-011-B06	50-CP-B2	2'-0"	2'-0"	4"	3'-0"	3'-0"
PAD-011-B07	50-CP-B1	3'-0"	3'-0"	4"	4'-0"	4'-0"
PAD-011-B08	50-FC-B1	2'-4"	4'-2"	4"	3'-4"	5'-2"
PAD-011-B09	50-FC-B2	4'-0"	4'-9"	4"	5'-0"	5'-9"
PAD-011-B10	50-FC-B3	4'-0"	4'-6"	4"	5'-0"	5'-6"
PAD-011-B11	50-FC-B4	4'-0"	4'-6"	4"	5'-0"	5'-6"
PAD-011-B12	50-HWP-B1 & 50-HWP-B2	5'-0"	5'-0"	6"	6'-0"	6'-0"

													STE	AM H	<b>EATI</b>	NG C	OIL	SCHE	<b>DUL</b>	E (ST	<b>EAM</b>	- IFE	3)					
			2,42=						MAX.	MAX	FACE	SIZE DA	TA							TEMPER	ATURES		TOTA	AL MIN				
MARK	LOCATION	AREA AND/OR BLDG SERVED	SYSTEM AND/OR	APPLICATION	AIR	FLOW	QTY. OF COILS	IVIIN	FINS PER		CITY (5)	FACE	TUBE	TUBE	FIN HGT	TUBE	MAX.	APD (5)	E	AT	L	ΔT	CAP	A CITY	ENT CON	NT VALVE	ENT	COIL
			SERVICE		CFM	[L/s]	IN BANK		INCH	FPM	[M/s]	AREA (SF)		WID (IN)		WALL (IN)	IN WG	[Pa]	°F	[°C]	°F	[°C]	МВН	[kW]	PSIG	[kPa]	PSIG	[kPa]
50-HC-B1	MECH ROOM / 011	LOWER LEVEL, LEVELS 1 & 2	AH50-B1	PREHEAT	16000	[7600]	1	1	12	808	[2.54]	2912.8	-	-	-	0.035	0.3	[75]	19.3	[-7]	55	[ 13 ]	740.3	[ 2500 ]	15	[100]	5	[ 35 ]
						[]												[]						[]		[]		[]
2	MANUFACTURE	LECTIONS BASED OF R: L J WING. E ACTUATOR SHAL		,		STEAM.														ESS STEEL 00 CFM CO								
																				CCL								

		SCH	IEDULE - ME	CHANICA	AL VFD			
		ELECTRICAL [	DATA		ι	JNIT DIMENSI	ONS	
MARK	НР	VOLTAGE	AMERAGE	DEPTH	WIDTH	HIEGHT	WEIGHT	MOUNTING HEIGHT
VFD-50-RF-B1	20.0 hp	380 - 480 V	31 A	1'-3"	1'-8"	3'-2"	120 lb	3'-0"
VFD-50-SF-B1	50.0 hp	380 - 480 V	72 A	1'-7"	1'-8"	3'-2"	138 lb	3'-0"
VFD-50-HWP-B1	7.5 hp	380 - 480 V	12 A	10"	5"	3'-4"	33 lb	3'-4"
VFD-50-HWP-B2	7.5 hp	380 - 480 V	12 A	10"	5"	3'-4"	33 lb	3'-4"
VFD-50-F-B1	10.0 hp	380 - 480 V	15 A	10"	5"	3'-8"	40 lb	3'-7"
VFD-50-F-R1	7.5 hp	380 - 480 V	12 A	10"	5"	3'-4"	33 lb	3'-4"

								MAX.	MAX F	FACE		COIL	SIZE DA	ATA					EA	ΛT			LA	T		TOTA	\L	SENSII	BLE			C	CHILLED	WATER	Ł				
MARK	LOCATION	AREA AND/OR BLDG SERVED	SYSTEM AND/OR	AIR F	LOW	QTY. OF COILS IN BANK	MIN ROWS	FINS PER	VELO		FACE	TUBE	TUBE		UBE	APE		Db		WI	,	DI	b	Wk	<b>o</b>	CAPAC		CAPAC		FLO	w	EV	VT	LW	л	WPD	)	BASIS OF DESIGN COIL TYPE	NOTES
			SERVICE	CFM	[L/s]	BANK		INCH	FPM	[M/s]	AREA (SF)	LEN (IN)	WID (IN)	HGT V (IN)	I .	IN WG	[Pa]	°F	[°C]	°F	[°C]	°F	[°C]	°F	[°C]	МВН	[kW]	МВН	[kW]	GPM	[L/s]	°F	[°C]	°F	[°C]	FT	[M]		
50-CC-B1	MECH RM / 011	LOWER LEVEL, LEVELS 1 & 2	AH50-B1	27000	[ 13000 ]	1	8	12	540	[3]	50	-	-	- (	0.035	0.7 [	180 ]	84	[ 29 ]	70	[21]	52.1	[11]	52	[11]	1508	440 ]	927	270 ]	275	[ 17 ]	44	[7]	55	[13]	6.5	[2]	TRANE PRIMA-FLOW H	1,2,3,4,
					[]					[]							[]										[ ]		[ ]		[ ]						[ ]		

1. EQUIPMENT SELECTIONS BASED ON 750 FT ELEVATION, AND FLUID TYPE: WATER.

2. SEE SPECIFICATIONS FOR FURTHER DETAILS. 3. ROUTE CONDENSATE TO NEAREST FLOOR DRAIN.

4. COIL SHALL BE FULLY DRAINABLE.

5. STAINLESS STEEL DRAIN PAN.

				INT	AKE/	<b>EXHAUS</b>	T HO	OD SC	HEDU	LE			
MARK	LOCATION	SYSTEM AND/OR	TYPE	APPLICATION	THR	OAT SIZE	AIR I	LOW	Al	PD	DAMPER TYPE	MANUFACTURER MODEL	REMARKS
		SERVICE			IN	[mm]	CFM	[L/s]	IN	[Pa]	111 =	WODEL	
50-RH-R1	ROOF	1-AHU1	RELIEF	DUCTED	60 x 36	[ 1500 x 900 ]	19500	[ 9200 ]	0.26	[ 65 ]	BACKDRAFT	GREENHECK WRH	1,2,3,4,6,7,8,9
50-RH-R2	ROOF	HOISTWAY VENT	RELIEF	GRAVITY	24" DIA	[610]	-		-		MOTORIZE N.C.	GREENHECK GRSR	1,2,3,4,5,6,7,8,9
								[ ]		[ ]			

1. REFERENCE SPECIFICATION SECTION "LOUVERS AND VENTS - 08 90 00". PROVIDED BY MECHANICAL CONTRACTOR. 2. COORDINATE WITH ARCHITECT FOR COLOR APROVAL. DARK BRONZE TO MATCH EXTERIOR DESIGN.

3. ALUMINUM CONSTRUCTION WITH BAKED ENAMEL FINISH.

4. PROVIDE WITH MOTORIZED LOW LEAKAGE CONTROL DAMPER.

5. DAMPER ACTUATORS TO BE 120-VOLT, 2-POSITION, SPRING RETURN, AND SUPPLIED WITH DAMPERS.

6. BIRDSCREEN AT INTERIOR SIDE OF DAMPER.

				INT	'AKE/I	<u>EXHAUS</u>	<u>T HOC</u>	<u>DD SC</u>	<u>HEDU</u>	LE			
.RK	LOCATION	SYSTEM AND/OR	TYPE	APPLICATION	THR	OAT SIZE	AIR F	LOW	AF	PD	DAMPER TYPE	MANUFACTURER MODEL	REMARKS
		SERVICE			IN	[mm]	CFM	[L/s]	IN	[Pa]	1112	MODEL	
H-R1	ROOF	1-AHU1	RELIEF	DUCTED	60 x 36	[ 1500 x 900 ]	19500	[ 9200 ]	0.26	[ 65 ]	BACKDRAFT	GREENHECK WRH	1,2,3,4,6,7,8,9
H-R2	ROOF	HOISTWAY VENT	RELIEF	GRAVITY	24" DIA	[610]	-		-		MOTORIZE N.C.	GREENHECK GRSR	1,2,3,4,5,6,7,8,9
								[ ]		[]			

U.	D. DIRUGUREEN AT INTERIOR SIDE OF DANIFER.
7.	7. ROOF MOUNTED HOODED GRAVITY VENTILATOR WITH INSECT SCREEN.
8.	3. HIGH WIND RATED.

				LO	UVE	R SC	HEDU	LE		
TAG	SERVICE	CFM	SIZE W x H (IN)	BASE HEIGHT (IN)	MAX. PD (IN. WG)	FREE AREA (FT^2)	FREE AREA VELOCITY (FPM)	RATED FOR AMCA 540, TAS 201, 202, 203	BASIS OF DESIGN MANUFACTURER MODEL NUMBER	NOTES
L-1A	- INTAKE	- 7,000	96 X 72 62 X 72	-	0.03	24.7 15.6	- 450	YES	GREENHECK ESD-635	1,2,3,4,5,6,7
L-1B	- INTAKE	3,900	96X48 62X36	-	0.03	19.1 8.6	- 450	YES	GREENHECK ESD-635	1,2,3,4,5,6,7
L-1C	BLANKED OFF SECTION	-	96X48	-	-	19.1	-	YES	GREENHECK ESD-635	1,3,4,5,6
L-2A	- INTAKE	- 7000	96 X 72 62 X 72	0	0.03	24.7 15.6	- 450	YES	GREENHECK ESD-635	1,2,3,4,5,6,7
L-2B	- INTAKE	- 3900	96X48 62X36	0	0.03	19.1 8.6	- 450	YES	GREENHECK ESD-635	1,2,3,4,5,6,7

- 1. THESE LOUVERS (L-1A, 1B, 1C, 2A & 2B) WHEN COMBINED FORM A SINGLE 96X288 LOUVER, SEE ARCHITECTURAL DRAWINGS FOR DETAILS. 2. FIRST DIMENSION SHOWN IS THE OVERALL LOUVER SIZE, WHILE THE SECOND DIMENSION IS FOR THE ACTIVE SECTION OF THE LOUVER.
- 3. REFERENCE SPECIFICATION SECTION "LOUVERS AND VENTS 08 90 00". PROVIDED BY MECHANICAL CONTRACTOR.

4. COORDINATE WITH ARCHITECT FOR COLOR APROVAL. DARK BRONZE TO MATCH EXTERIOR DESIGN.

5. HIGH WIND RATED. 6. ALUMINUM CONSTRUCTION WITH BAKED ENAMEL FINISH.

7. BIRDSCREEN AT INTERIOR SIDE OF LOUVER.

		HOIST	<b>WAY VEN</b>	T D/	AMP	ER S	SCH	EDULE	
MADIZ	EL EVATOR	LOCATION	HOISTWAY	WII	OTH	HEI	GHT	WALL OR	DEMARKS
MARK	ELEVATOR	LOCATION	HOISTWAY IDENTIFICATION	IN	[mm]	IN	[mm]	ROOF VENT	REMARKS
50-HVD1			50-EV1	24	[ 600 ]		[]	ROOF VENT	MAYBE PROVIDED WITH RELIEF HOOD
					[ ]		[ ]		

											HUM	IDIFE	R COIL	SCHE	EDULE	(STE	AM)												
			OVOTEM		AID			STE	AM DATA		FACE DIME	NSIONS	OVERALL D	DIMENSIONS	6	TUDE		TEMPERA	ATURES		RELA	TIVE HUN	MIDITY	MAX	FACE		<b></b>	BASIS OF	
MARK	LOCATION	AREA AND/OR BLDG SERVED	SYSTEM AND/OR	APPLICATION	AIR	FLOW	ENT	r coil	FLO	ow	HEIGHT	WIDTH	HEIGHT	WIDTH	HEADER SIZE (IN)	TUBE CENTER	EA	AT	L/	ΛT	EA-RH	LA-RH	E-OA		CITY	Al	PD	DESIGN MANUFACTURER	REMARKS
			SERVICE		CFM	[L/s]	PSIG	[kPa]	LBS/HR	[kg/HR]	/INI\	(IN)	(IN)	(IN)		(IN)	°F	[°C]	°F	[°C]	(%)	(%)	(%)	FPM	[M/s]	IN WG	[Pa]	AND MODEL	
50-SHC-B1	MECH ROOM / 011	LOWER LEVEL, LEVELS 11 & 2	AH50-B1	HUMIDICATION	14700	[ 6900 ]	] 15	[ 100 ]	300	[140]	-	-	-	-	3	3	52.6	[ 11 ]	55	[ 13 ]	10	70	36	785	[2.54]	0.06	[ 15 ]	DRISTEAM ULTRA-SORB LV	1, 2, 3, 4
						[]		[ ]		[]																	[]		

1. COORDINATE WITH AIR HANDLER MANUFACTURER FOR EXACT INSTALLATION REQUIREMENTS. 2. ROUTE CONDENSATE THROUGH CONDENSATE DRAIN COOLER THEN TO NEAREST FLOOR DRAIN.

3. HUMIDIFIER DISPERSION TUBE SECTION FIELD INSTALLED BY CONTRACTOR.

4. MAXIMUM ABSORPTION DISTANCE IS 12-INCHES [305 MM].

1417-71 71 7	LOOAHOI		AILD/OIL			<u> </u>		V I	LV	
		BLDG SERVED	SERVICE		GPM	[L/s]	°F	[°C]	°F	
50-HX-B1	MECH ROOM / 011	LOWER LEVEL, LEVELS 1 & 2	HEATING WATER	SHELL & TUBE	125	[8]	150	[ 66 ]	180	[

		ADEA AND/OD	SYSTEM				\	NATER CC	NDITION	S				STEAM PI	RESSURE		CONTRO	//=		TRAP		BASIS OF DESIGN	
MARK	LOCATION	AREA AND/OR BLDG SERVED	AND/OR	TYPE	FL	OW	E\	ΝT	LV	٧T	W	/PD	CONTRO	L VALVE	HEAT EX	CHANGER	CONTRO	LVALVE	TRAP#	CAPA	ACITY	MANUFACTURER	NOTES
		DLDG SLKVLD	SERVICE		GPM	[L/s]	°F	[°C]	°F	[°C]	FT	[kPa]	PSIG	[kPa]	PSIG	[kPa]	LBS/HR	[kg/HR]	IKAP#	LBS/HR	[kg/HR]	AND MODEL NUMBER	
50-HX-B1	MECH ROOM / 011	LOWER LEVEL, LEVELS 1 & 2	HEATING WATER	SHELL & TUBE	125	[8]	150	[ 66 ]	180	[ 82 ]	10	[ 30 ]	15	[ 100 ]	5	[ 35 ]	3300	[ 1500 ]	1-TP2	9900	[ 4500 ]	AERCO SWDW-68 / 2.5 / EC	1,2,3,4,5
50-HX-B2	MECH ROOM / 011	LOWER LEVEL, LEVELS 1 & 2	HEATING WATER	SHELL & TUBE	125	[8]	150	[ 66 ]	180	[ 82 ]	10	[ 30 ]	15	[ 100 ]	5	[ 35 ]	3300	[ 1500 ]	1-TP2	9900	[ 4500 ]	AERCO SWDW-68 / 2.5 / EC	1,2,3,4,5
						[]						[ ]		[ ]		[ ]							
NOTES:																							

STEAM TO WATER HEAT EXCHANGER SCHEDULE

STEAM

LBS/HR [kg/HR]

790 [ 360 ]

STEAM TRAP

SCHEDULE

BASIS OF

1980 [ 900 ] INTEGRAL FACE & BYPASS 1, 2, 3, 4

DESIGN COIL REMARKS

1. ELECTRONIC CONTROLS (+/- 4 F) WITH HIGH TURNDOWN CONTROL VALVES AND HIGH LIMIT TIPPED STATUS INDICATION. 2. INTEGRATE WITH EXISTING BUILDING AUTOMATION SYSTEM.

3. ASME RATED AND INSTALLED WITH RELIEF VALVES RATED FOR SERVICE REQUIREMENTS OF STEAM AND WATER SYSTEMS.

4. CONSTRUCTION: DOUBLE WALL TUBING, COPPER TUBES, 304 STAINLESS STEEL WETTED PARTS, VIRGIN TEFLON. 5. DISCONNECT BY ELECTRICAL CONTRACTOR.

										FAI	<u> VSC</u>	HEDULE															
				AID	) FI OW		TOD					FAN								мото	OR ELEC	TRICAL	-				
MARK	LOCATION	AREA AND/OR BLDG SERVED	SYSTEM AND/OR SERVICE	AIR	RFLOW		TSP		TYPE	\A/I.IEEI	CL ACC	ARRANGEMENT,	DIAN	METER	MIN %	DRIVE	FAN MAX	NOMI	NAL PO	WER	DUACE	VOLT	DDM	SPEED	CONTROL SEQUENCE	MANUFACTURER /	NOTES
				CFM	[L/s]	IN	[Pa]	NO.	TTPE	WHEEL	CLASS	ROTATION, AND DISCHARGE	IN	[mm]	EFF		RPM	ВНР	HP	[kW]	PHASE	VOLI	RPIVI	CONTROL		MODEL NUMBER	
50-SF-B1A, B1B, B1C, B1D	MECHANICAL 011	LOWER LEVEL, LEVELS 1 &2	50-AHU-B1	27000	[ 13000 ]	7	[ 1800 ]	4 FANS (2X2 ARRAY)	AF PLENUM		2	SDDP / BACK INLET	22.25	[ 560 ]	80%	DIRECT	2400	49.52	60	[ 45 ]	3	460	1800	VARIABLE	50-M21	SUPPLIED WITH AHU	1,2,3,4,5,6,7
50-RF-B2A, B2B, B2C, B2D	MECHANICAL 011	LOWER LEVEL, LEVELS 1 &2	50-AHU-B1	27000	[ 13000 ]	2.5	[ 630 ]	4 FANS (2X2 ARRAY)	AF PLENUM		2	SDDP / BACK INLET	22.25	[ 560 ]	80%	DIRECT	1850	19.89	20	[ 15 ]	3	460	1800	VARIABLE	50-M21	SUPPLIED WITH AHU	1,2,3,4,5,6,7
					[]		[]							[ ]						[]							
50-F-B1	MECHANICAL 011	LOWER LEVEL, LEVELS 1 &2	50-ERV-B1 / OUTSIDE AIR	8500	[4000]	3.5	[ 880 ]	1	UTILITY VENT SET CENTRIFUGAL	BISW	2	ARR 4, CCW, UB	20	[ 500 ]	50%	DIRECT	2500	9.06	10	[8]	3	460	1750	VARIABLE	50-M22 ERV	GREENHECK 20-CSW-BI-41-4-100	1,2,3,5,6,7
50-F-R1	ROOF	LOWER LEVEL, LEVELS 1 &2	50-ERV-B1 / GENERAL EXHAUST	6500	[ 3100 ]	3.5	[ 880 ]	1	UPBLAST CENTRIFUGAL	N/A	I	UPBLAST	36	[ 900 ]	60%	DIRECT	1500	5.97	7.5	[6]	3	460	1750	VARIABLE	50-M22 ERV	GREENHECK CUBE 360XP-75	1,2,3,5,6,7
					[]		[ ]							[ ]						[ ]							

1. MOTOR INFOMRATION BASED ON TOTAL CONNECTED REQUIRMEENT.

2. ALL SELECTIONS ARE BASED ON AN ALTITUDE OF 850 FEET ABOVE SEA LEVEL. 3. PREMIUM EFFICIENCY MOTORS WITH THERMAL OVERLOAD PROTECTION

4. INSTALL WITH VIBRATION ISOLATION: SPRING ISOLATORS, FLEXIBLE DUCT CONNECTIONS, OR INTERNAL VIBRATION ISOLATION, AS APPROPRIATE. 5. VARIABLE FREQUENCY DRIVES FOR FANS PROVIDED BY CONTROLS CONTRACTOR, INSTALLED BY ELECTRICAL CONTRACTOR. DISCONNECT BY ELECTRICAL CONTRACTOR.

6. DISCONNECTS TO BE PROVIDED AND INSTALLED BY ELECTRICAL CONTRACTOR. 7. CALIBRATE VFD TO MATCH MOTOR PERFORMANCE OF BALANCED SYSTEM, AND SET CARRIER FREQUENCY ABOVE AUDIBLE LEVEL. REVISE ENTIRE SHEET

AMENDMENT 1 04/25/16	CONSULTANTS:	ARCHITECT/ENGINEERS:	Drawing Title  MECHANICAL EQUIPMENT	Project Title CONSTRUCT SPECIALTY	Building No.  BLDG 50	Office of
		HIERY design project number HII-11255	SCHEDULES 9	CLINICS ADDITION	Project No. <b>VA# 636-315</b>	Construction and Facilities
		Heery International Inc.  125 South Dubuque Street,	CONSTRUCTION DOCUMENTS	ICVA HEALTH CARE SYSTEM	DRAWING NO.	Management
Revisions Date		Suite 500, Iowa City, IA 52240-4003 319.354.4700	FULLY SPRINKLERED	Date Checked PAB Drawn HRO	<b>50-M13</b> Dwg. 116 of 162	VA U.S. Department of Veterans Affairs
 VA FORM 08-6231, FEB. 1983						

											LVE SHE						
TAG	FINAL LABEL	SYS	LOCATION	SERVICE	TYPE	LBS	ACITY, 6/HR /HR]	ENTE PRES	IINAL ERING SURE, [kPa]	VALVE Cv	INLET PIPE SIZE, INCHES	ACTUATION	MAIN BODY CONSTRUCTION	MAIN BODY CLASS	CONSTRUCTION FEATURES	BASIS FOR DESIGN	NOTES
0-SV01	50-SV-011-01	HPS	MECH-011	SHUTOFF	GATE		[ ]	125	[ 860 ]		4	MANUAL	CAST STEEL	300	OUTSIDE SCREW AND YOLK		ISOLATION AT MECH RM ENTRANCE, REQ'D BY VA WARMUP BYPASS
0-SV02	50-SV-011-02	HPS	MECH-011	SHUTOFF	GLOBE		[ ]	125	[ 860 ]		2	MANUAL	CAST STEEL	300	OUTSIDE SCREW AND YOLK		AROUND ISOLATIO AT MECH RM ENTRANCE, REQ'D BY VA
0-SV03	50-SV-011-03	HPS	MECH-011	SHUTOFF	GATE		[]	125	[ 860 ]		4	MANUAL	CAST STEEL	300			
0-SV04	50-SV-011-04	HPS	MECH-011	SHUTOFF	GATE		[ ]	125	[ 860 ]		4	MANUAL	CAST STEEL	300	OUTSIDE SCREW AND YOLK		ISOLATION AT MECH RM ENTRANCE, REQ'D BY VA
0-SV05	50-SV-011-05	HPS	MECH-011	SHUTOFF	GATE		[]	125	[ 860 ]		4	MANUAL	CAST STEEL	300	OUTSIDE SCREW AND YOLK		
0-SV06	50-SV-011-06	HPS	MECH-011	SHUTOFF	GATE		[]	125	[ 860 ]		2 1/2	MANUAL	CAST STEEL	300	OUTSIDE SCREW AND YOLK		
0-SV07	50-SV-011-07	HPS	MECH-011	SHUTOFF	GATE		[]	125	[ 860 ]		2	MANUAL	CAST STEEL	300			
0-SV08	50-SV-011-08	HPS	MECH-011	SHUTOFF	GATE		[]	125	[ 860 ]		1 1/4	MANUAL	CAST STEEL	300			
0-SV09	50-SV-011-09	HPS	MECH-011	BYPASS	GLOBE		[]	125	[ 860 ]		1 1/2	MANUAL	CAST STEEL	300			
0-SV10	50-SV-011-10	MPS	MECH-011	SHUTOFF	GATE		[ ]	60	[410]		5	MANUAL	CAST STEEL	300	OUTSIDE SCREW AND YOLK		
0-SV11	50-SV-011-11	MPS	MECH-011	SHUTOFF	GATE		[ ]	60	[410]		3	MANUAL	CAST STEEL	300	OUTSIDE SCREW AND YOLK		
0-SV12	50-SV-011-12	LPS	MECH-011	SHUTOFF	GATE		[]	15	[ 100 ]		3	MANUAL	CAST STEEL	300	OUTSIDE SCREW AND YOLK		
0-SV13	50-SV-011-13	LPS	MECH-011	SHUTOFF	GATE		[]	15	[ 100 ]		2	MANUAL	CAST STEEL	300			
0-SV14	50-SV-011-14	LPS	MECH-011	RISER CAPPED FOR FUTURE	GATE		[ ]	15	[ 100 ]		4	MANUAL	CAST STEEL	150			
0-SV15	50-SV-011-15	LPS	MECH-011	BRANCH LINE TO 50WH-B1 & B2	GATE		[ ]	15	[ 100 ]		4	MANUAL	CAST STEEL	150			
0-SV16	50-SV-011-16	LPS	MECH-011	BRANCH LINE TO 50HX-B1 & B2	GATE		[ ]	15	[ 100 ]		6	MANUAL	CAST STEEL	150			
0-SV17	50-SV-011-17	LPS	MECH-011	BRANCH LINE	GATE		[ ]	15	[ 100 ]		3	MANUAL	CAST STEEL	150			
0-SV18	50-SV-011-18	LPS	MECH-011	TO AHS BRAMCH LINE CAPPED	GATE		[]	15	[ 100 ]		4	MANUAL	CAST STEEL	150			
0-SV19	50-SV-011-19	LPS	MECH-011	BRANCH LINE TO 1WH-B1	GATE		[]	15	[ 100 ]		4	MANUAL	CAST STEEL	150			
0-SV20	50-SV-011-20	LPS	MECH-011	50WH-B1 CONTROL (2/3)	GLOBE	825	[ 370 ]	15	[ 100 ]	33	2	MODULATING ELECTRONIC	CAST STEEL, ASTM A216 WCB			SARCO KE43	
0-SV21	50-SV-011-21	LPS	MECH-011	BYPASS SHUTOFF	GATE		[]	15	[ 100 ]		4	MANUAL	CAST STEEL	150			
0-SV22	50-SV-011-22	LPS	MECH-011	50WH-B1 CONTROL (1/3)	GLOBE	410	[ 190 ]	15	[100]	16	1 1/4	MODULATING ELECTRONIC	CAST STEEL, ASTM A216 WCB			SARCO KE43	
0-SV23	50-SV-011-23	LPS	MECH-011	BYPASS SHUTOFF	GATE		[]	15	[100]		4	MANUAL	CAST STEEL	150			
0-SV24	50-SV-011-24	LPS	MECH-011	50WH-B2 CONTROL (2/3)	GLOBE	825	[ 370 ]	15	[ 100 ]	33	2	MODULATING ELECTRONIC	CAST STEEL, ASTM A216 WCB			SARCO KE43	
0-SV25	50-SV-011-25	LPS	MECH-011	50WH-B2 CONTROL (1/3)	GLOBE	410	[ 190 ]	15	[ 100 ]	16	1 1/4	MODULATING ELECTRONIC	CAST STEEL, ASTM A216 WCB			SARCO KE43	
0-SV26	50-SV-011-26	LPS	MECH-011	BRANCH LINE	GATE		[]	15	[100]		4	MANUAL	CAST STEEL	150			
0-SV27	50-SV-011-27	LPS	MECH-011	TO 50WH-B1 BYPASS	GLOBE		[]	15	[100]		1 1/2	MANUAL	CAST STEEL	150			
0-SV28	50-SV-011-28	LPS	MECH-011	50HX-B1	GLOBE	2100	[ 950 ]	15	[100]	84	3	MODULATING	CAST STEEL,			SARCO KE43	
0-SV29	50-SV-011-29	LPS	MECH-011	50HX-B1	GLOBE	1050	[480]	15	[100]	42	2	ELECTRONIC  MODULATING	ASTM A216 WCB CAST STEEL,			SARCO KE43	
0-SV30	50-SV-011-30	LPS	MECH-011	CONTROL (1/3) BRANCH LINE	GATE		[ ]	15	[100]		4	ELECTRONIC MANUAL	ASTM A216 WCB  CAST STEEL	150			
0-SV31	50-SV-011-31	LPS	MECH-011	TO 1HX-B1 BYPASS	GLOBE		[ ]	15	[100]		1 1/2	MANUAL	CAST STEEL	150			
0-SV32	50-SV-011-31	LPS	MECH-011	BYPASS	GATE		[ ]	15	[100]		4	MANUAL	CAST STEEL	150			
0-SV32	50-SV-011-32	LPS	MECH-011	SHUTOFF BYPASS	GATE		[ ]	15	[100]		4	MANUAL	CAST STEEL  CAST STEEL	150			
0-SV34	50-SV-011-34	LPS	MECH-011	SHUTOFF 50HX-B2	GLOBE	2100	[ 950 ]	15	[100]	84	3	MODULATING	CAST STEEL,	130		SARCO KE43	
0-SV35	50-SV-011-34 50-SV-011-35	HPS	MECH-011	CONTROL (2/3) BRANCH LINE	GATE	<u> </u>	[ 330 ]	15	[100]	U <del>1</del>	4	ELECTRONIC MANUAL	ASTM A216 WCB  CAST STEEL	150		ONINOU INERO	
0-SV36	50-SV-011-35 50-SV-011-36	LPS	MECH-011	TO 50HX-B2 50HX-B2	GLOBE	1050	[ 480 ]	15	[100]	42	2	MODULATING	CAST STEEL,	130		SARCO KE43	
0-SV36 0-SV37	50-SV-011-36 50-SV-011-37	PC PC	MECH-011	CONTROL (1/3) SHUTOFF	GLOBE	1000		15		44	2 1/2	ELECTRONIC MANUAL	ASTM A216 WCB  CAST STEEL	150		UAINOU NE43	
0-SV37 0-SV38	50-SV-011-37 50-SV-011-38	LPS	MECH-011	BRANCH LINE	GATE		[]		[ 100 ]		1 1/4	MANUAL	CAST STEEL  CAST STEEL				
				TO 50SCH-B1 50SCH-B1		200	[ ]	15	[100]	10	1 1/4	MODULATING	CAST STEEL,	150		SADOO KE40	
0-SV39	50-SV-011-39	LPS	MECH-011	CONTROL BRANCH LINE	GLOBE	300	[140]	15	[ 100 ]	12	0.4/0	ELECTRONIC	ASTM A216 WCB	450		SARCO KE43	
0-SV40	50-SV-011-40	LPS	MECH-011	TO 50AH-B1 50AH-B1	GATE	700	[ ]	15	[100]	04	2 1/2	MANUAL MODULATING	CAST STEEL CAST STEEL,	150		CADOO KE 10	
0-SV41	50-SV-011-41	LPS	MECH-011	CONTROL	GLOBE	790	[ 360 ]	15	[100]	31	2	ELECTRONIC	ASTM A216 WCB	000		SARCO KE43	
0-SV42	50-SV-011-42	MPS	MECH-011	BYPASS MAIN	GLOBE		[ ]	60	[410]		2 1/2	MANUAL	CAST STEEL	300			
0-SV43	50-SV-011-43	LPS	MECH-011	SHUTOFF	GATE		[ ]	15	[ 100 ]		8	MANUAL	CAST STEEL	150			
0-SV44	50-SV-011-44	PC	MECH-011	SHUTOFF	GATE		[]		[]		2	MANUAL	CAST STEEL	150			
0-SV45	50-SV-011-45	PC	MECH-011	SHUTOFF	GATE		[ ]		[]		2	MANUAL	CAST STEEL	150			
0-SV46	50-SV-011-46	HPS	MECH-011	SHUTOFF	GATE		[]		[]		3/4	MANUAL	CAST STEEL	300			
	50-SV-011-47	HPS	MECH-011	SHUTOFF	GATE		[]		[]	1	1/2	MANUAL	CAST STEEL	300			

FI	RE / SMOKE DA	AMPER SCHE	DULE
TAG	DUCT SYSTEM	Overall Size	OmniClass Title
		00)//0 00)//0	
SD-0-5	Supply Air	36X18-36X18	Fire Dampers
LOWER LEVE	EL <sub></sub>		
SD-0-1	Supply Air	46X34-46X34	Smoke Dampers
SD-0-2	Return Air	48X36-48X36	Smoke Dampers
LEVEL 1			
FSD-1-1	Return Air	48X22-48X22	Smoke Dampers
FSD-1-2	Supply Air	32X20-32X20	Smoke Dampers
FSD-1-4	Undefined		
LEVEL 2			
FSD-2-1	Return Air	48X22-48X22	Smoke Dampers
FSD-2-2	Supply Air	34X16-34X16	Smoke Dampers

TAG	FINAL LABEL	sys	LOCATION	SERVICE	CONFIGURATION	CAPAC	CITY	ENTE PRES	IINAL ERING SURE, SIG	TRAP DIFFERENTIAL PRESSURE, PSI	LINE	SIZE	ORIFIC	E SIZE	FACTOR OF SAFETY INCLUDED IN TRAP	BODY MATERIAL	BASIS FOR DESIGN	NOTES
						LBS/HR	[kg/HR]	PSI	[kPa]		INCHES	[mm]	INCHES	[mm]	CAPACITY			
50-ST01	50-ST-011-01	HPS	MECH-011	PIPE DRIP	FLOAT & THERMOSTATIC	630 LBS/HR	[ 290 ]	100	[ 690 ]	80	1/2	[ 13 ]	N/A	-	3	CAST STEEL	SARCO FT-125	2
50-ST02	50-ST-011-02	HPS	MECH-011	END OF MAIN DRIP	INVERTED BUCKET	160 LBS/HR	[ 73 ]	100	[ 690 ]	80	3/4	[ 19 ]	N/A	-	4	CAST STEEL	SARCO HM-34	3, 4
50-ST03	50-ST-011-03	MPS	MECH-011	PIPE DRIP	FLOAT & THERMOSTATIC	45 LBS/HR	[ 20 ]	60	[410]	48	1	[ 25 ]	1/6	[4]	3	CAST IRON	SARCO FT-75	2
50-ST04	50-ST-011-04	MPS	MECH-011	PIPE DRIP	FLOAT & THERMOSTATIC	90 LBS/HR	[41]	60	[410]	48	3/4	[ 19 ]	1/6	[4]	3	CAST IRON	SARCO FT-75	2
50-ST05	50-ST-011-05	MPS	MECH-011	END OF MAIN DRIP	INVERTED BUCKET	144 LBS/HR	[ 65 ]	60	[410]	48	3/4	[ 19 ]	1/8	[3]	4	CAST IRON	SARCO HM-34	3, 4
50-ST06	50-ST-011-06	LPS	MECH-011	PIPE DRIP	FLOAT & THERMOSTATIC	30 LBS/HR	[ 14 ]	15	[100]	12	1/2	[ 13 ]	7/32	[6]	3	CAST IRON	SARCO FT-30	2
50-ST07	50-ST-011-07	LPS	MECH-011	PIPE DRIP	FLOAT & THERMOSTATIC	60 LBS/HR	[ 27 ]	15	[ 100 ]	12	1/2	[ 13 ]	7/32	[6]	3	CAST IRON	SARCO FT-30	2
50-ST08	50-ST-011-08	LPS	MECH-011	STEAM HEADER DRIP	THERMO DYNAMIC	675 LBS/HR	[ 310 ]	15	[ 100 ]	12	3/4	[ 19 ]	5/32	[4]	3	CAST IRON	SARCO TD-52	3, 4
50-ST09	50-ST-011-09	LPS	MECH-011	PIPE DRIP	FLOAT & THERMOSTATIC	60 LBS/HR	[ 27 ]	15	[ 100 ]	12	3/4	[ 19 ]	5/32	[4]	3	CAST IRON	SARCO FT-30	2
50-ST10	50-ST-011-10	LPS	MECH-011	PIPE DRIP 2	COAT MERINGENATIO	60 LBS/HR	[ 27 ]	15	[100]	12	3/4	[ 19 ]	5/32	[4]	3	CAST IRON	SARCY F1-30	2 2
50-ST11	50-ST-011-11	LPS	MECH-011	DOMESTIC WATER HEATER 50WH-BL	FLOAT & THERMOSTATIC	3 25 LBS/HR	[ 1400 ]	15	[ 100 ]	12	2	[ 50 ]	15/16	[ 23 ]	2.5	CAST IRON	SARCO FT-30	3 2
50-ST12	50-ST-011-12	LPS	MECH-011	DOMESTIC	FLOAT & THERMOSTATIC	3125 LBS/HR	[ 1400 ]	15	[ 100 ]	12	2	[ 50 ]	15/16	[ 23 ]	2.5	CAST IRON	SARCO FT-30	2
50-ST13	50-ST-011-13	LPS	MECH-011	PIPE DRIP	NVENTED BUCKET	320 LBS/HR	[ 150 ]	15	[100]	12	3/4	[ 19 ]	5/32	[4]	4	CAST IRON	CRCO MA	3, 4
50-ST14	50-ST-011-14	LPS	MECH-011	HEAT EXCHANGER 50HX-B1	FLOAT & THERMOSTATIC	8000 LBS/HR	[ 3600 ]	15	[ 100 ]	12	2	[ 50 ]	15/16	[ 23 ]	2.5	CAST IRON	SARCO FT-30	2
50-ST15	50-ST-011-15	LPS	MECH-011	HEAT EXCHANGER 50HX-B2	FLOAT & THERMOSTATIC	8000 LBS/HR	[ 3600 ]	15	[ 100 ]	12	2	[ 50 ]	15/16	[ 23 ]	2.5	CAST IRON	SARCO ET 30	2 2
50-ST16	50-ST-011-16	LPS	MECH-011	HUMIDIFIER 50SCH-B1	AUTOMATIC PUMP TRAP	675 LBS/HR	[310]	15	[100]	12	2	[ 50 ]	15/16	[ 23 ]	2.5	CAST IRON	SARCO APT-14	1, 5
50-ST17	50-ST-011-17	LPS	MECH-011	END OF MAIN DRIP	INVERTED BUCKET	132 LBS/HR	[ 60 ]	15	[100]	12	3/4	[ 19 ]	5/32	[4]	4	CAST IRON	SARCO HIVI-34	3, 4
50-ST18	50-ST-011-18	LPS	MECH-011	END OF MAIN DRIP	INVERTED BUCKET	132 LBS/HR	[ 60 ]	15	[ 100 ]	12	3/4	[ 19 ]	5/32	[4]	4	CAST IRON	SARCO HM-34	3, 4
50-ST19	50-ST-011-19	LPS	MECH-011	HEATING COIL 50HC-B1	AUTOMATIC PUMP TRAP	1975 LBS/HR	[ 900 ]	15	[ 100 ]	12	3/4	[ 19 ]	15/16	[ 23 ]	2.5	CAST IRON	SARCO APT-14HC	1, 5
50-ST20	50-ST-011-20	LPS	MECH-011	END OF MAIN DRIP	INVERTED BUCKET	320 LBS/HR	[ 150 ]	15	[100]	12	3/4	[ 19 ]	5/32	[4]	4	CAST IRON	SARCO HM-34	3, 4
50-ST21	50-ST-011-21	LPS	MECH-011	PIPE DRIP	2 INVERTED BUCKET	120 LBS/HR	[ 54 ]	15	[100]	12	3/4	[ 19 ]	5/32	[4]	4	CAST IRON	SARCO HM-34	3, 4
50-ST22	50-ST-011-22	LPS	MECH-011	PIPE DRIP	INVERTED BUCKET	120 LBS/HR	[ 54 ]	15	[100]	12	3/4	[ 19 ]	5/32	[4]	4	CAST IRON	SARCO HM-34	3, 4
50-ST23	50-ST-011-23	LPS	MECH-011	MOTIVE STEAM	INVERTED BUCKET	120 LBS/HR	[ 54 ]	15	[100]	12	3/4	[19]	5/32	[4]	4	CAST IRON	SARCO HM-34	3, 4
50-ST24	50-ST-011-24		MECH-011	DRIP TO 50-ST16  MOTIVE STEAM	INVERTED BUCKET	120 LBS/HR		15	[ 100 ]	12_	3/4	[19]	5/32	[4]	4_	CAST IRON	SARCO HM-34	3, 4
50-ST25				DRI TS 50-ST/9				~~										

- 1. UTILIZE A INSERTION CONDESATE MIXER TO CONNECT THE DISCHARGE FROM STEAM TRAP TO LOW-PRESSURE CONDENSATE RETURN (LPC) LINE.
- 2. STEAM TRAP SHALL BE PIPED PER 3/50-M19. PROVIDE LINE SIZE UNIONS, BALL VALVES, AND CHECK VALVES TO MATCH LINE SIZES.
- 3. STEAM TRAP SHALL BE PIPED PER 9/50-M19. PROVIDE LINE SIZE UNIONS, BALL VALVES, AND CHECK VALVES TO MATCH LINE SIZES. 4. STEAM TRAP SHALL BE PIPED PER 6/50-M19. PROVIDE LINE SIZE UNIONS, BALL VALVES, AND CHECK VALVES TO MATCH LINE SIZES.
- 5. AUTOMATIC PUMP TRAP SHALL BE PIPED PER 10/50-M17. PROVIDE UNIONS, BALL VALVES, CHECK VALVES, AND AIR VENTS TO MATCH TRAP LINE SIZES. PROVIDE 100PSI MOTIVE STEAM.

				В	UILDI	NG · S	TEAN	<b>II PRE</b>	SSUF	RE RI	<b>EDU</b> (	CING	<b>VALVE</b>	SCH	DULE				
TAG	FINAL LABEL	LOCATION	SYSTEM AND/OR	QUANTITY	REQU CAPA	I		OW WIDE VALVE	II	PRES	SURE O	UT	VALVE Cv	INLET PIPE SIZE.	ACTUATION	MAIN BODY CONSTRUCTION	MAIN BODY	BASIS FOR DESIGN	REMARKS
	LADLL		SERVICE	2	LESAR	[kg/HR]	LBS/HR	[kg/HR]	PSIG	[kPa]	PSIG	[kPa]	2	HICHE		CONSTRUCTION	CLASS	DEGIGIT	
50-SPRV1	50-SPRV-011-01	MECH-011	HPS	1	1800	[ 820 ]	2000	[910]	125	[ 860 ]	67	[ 460 ]	7.5	1 1/4	MECHANICAL	CAST STEEL, ASTM A216 WCB	300	SPENCE ED	NORMAL PORT
50-SPRV2	50-SPRV-011-02	MECH-011	HPS	1	3600	[ 1600 ]	3900	[ 1800 ]	125	[ 860 ]	65	[450]	14.9	1 1/2	MECHANICAL	CAST STEEL, ASTM A216 WCB	300	SPENCE ED	FULL PORT
50-SPRV3	50-SPRV-011-03	MECH-011	MPS	1	1800	[ 820 ]	2126	[ 970 ]	65	[ 450 ]	17	[ 120 ]	11.7	1 1/2	MECHANICAL	CAST STEEL, ASTM A216 WCB	300	SPENCE ED	NORMAL PORT
50-SPRV4	50-SPRV-011-04	MECH-011	MPS	1	3600	[ 1600 ]	6262	[ 2800 ]	65	[ 450 ]	15	[ 100 ]	18.3	3	MECHANICAL	CAST STEEL, ASTM A216 WCB	300	SPENCE ED	NORMAL PORT
50-SPRV5	50-SPRV-011-05	MECH-011	HPS	1	50	[23]	233	[110]	125	[ 860 ]	100	[ 690 ]	2.8	1/2	MECHANICAL	CAST STEEL, ASTM A216 WCB	300	SPENCE ED	NORMAL PORT
						[]		[]		[ ]		[ ]							

STEAM PRESSURE RELIEF VALVE SCHEDULE																
TAG	FINAL LABEL	LOCATION	SYSTEM AND/OR	TEMPE	RATURE	· I	MUM ACITY	SI PRES	ET SURE	INLET PIPE SIZE,	ACTUATION	MAIN BODY CONSTRUCTION	MAIN BODY	CONSTRUCTION FEATURES	BASIS FOR DESIGN	REMARKS
	LABLE		SERVICE	°F	[°C]	LPS/FIR	[kg/HR]	PSIG	[kPa]	INCHES		CONCINCOTION	CLASS	TEATORES	DEGIGIA	
50-SRV1	50-SRV-011-01	MECH-011	HPS PRV STATION	312	[ 160 ]	3600	[ 1600 ]	75	[ 520 ]	1 1/2	SELF CONTAINED	CAST IRON	300	1.391 SQ. IN. ORIFICE	SPENCE 41	DRIP PAN ELBOW, 2" OUTLET, 3" VTR
50-SRV2	50-SRV-011-02	MECH-011	HPS PRV STATION	312	[ 160 ]	3600	[ 1600 ]	<b>75</b>	[ 520 ]	1 1/2	SELF CONTAINED	CAST IRON	300	1.391 SQ. IN. ORIFICE	SPENCE 41	DRIP PAN ELBOW, 2" OUTLET, 3" VTR
50-SRV3	50-SRV-011-03	MECH-011	MPS PRV STATION	259	[ 130 ]	3600	[ 1600 ]	25	[ 170 ]	3	SELF CONTAINED	CAST IRON	250	3.715 SQ. IN. ORIFICE	SPENCE 41	DRIP PAN ELBOW, 4" OUTLET, 5" VTR
50-SRV4	50-SRV-011-04	MECH-011	MPS PRV STATION	259	[ 130	3600	[ 1600 ]	25	170]	3	SELF CONTAINED	CAST IRON	250	3.715 SQ. IN. ORIFICE	SPENCE 41	DRIP PAN ELBOW, 4" OUTLET, 5" VTR
						V	٧									

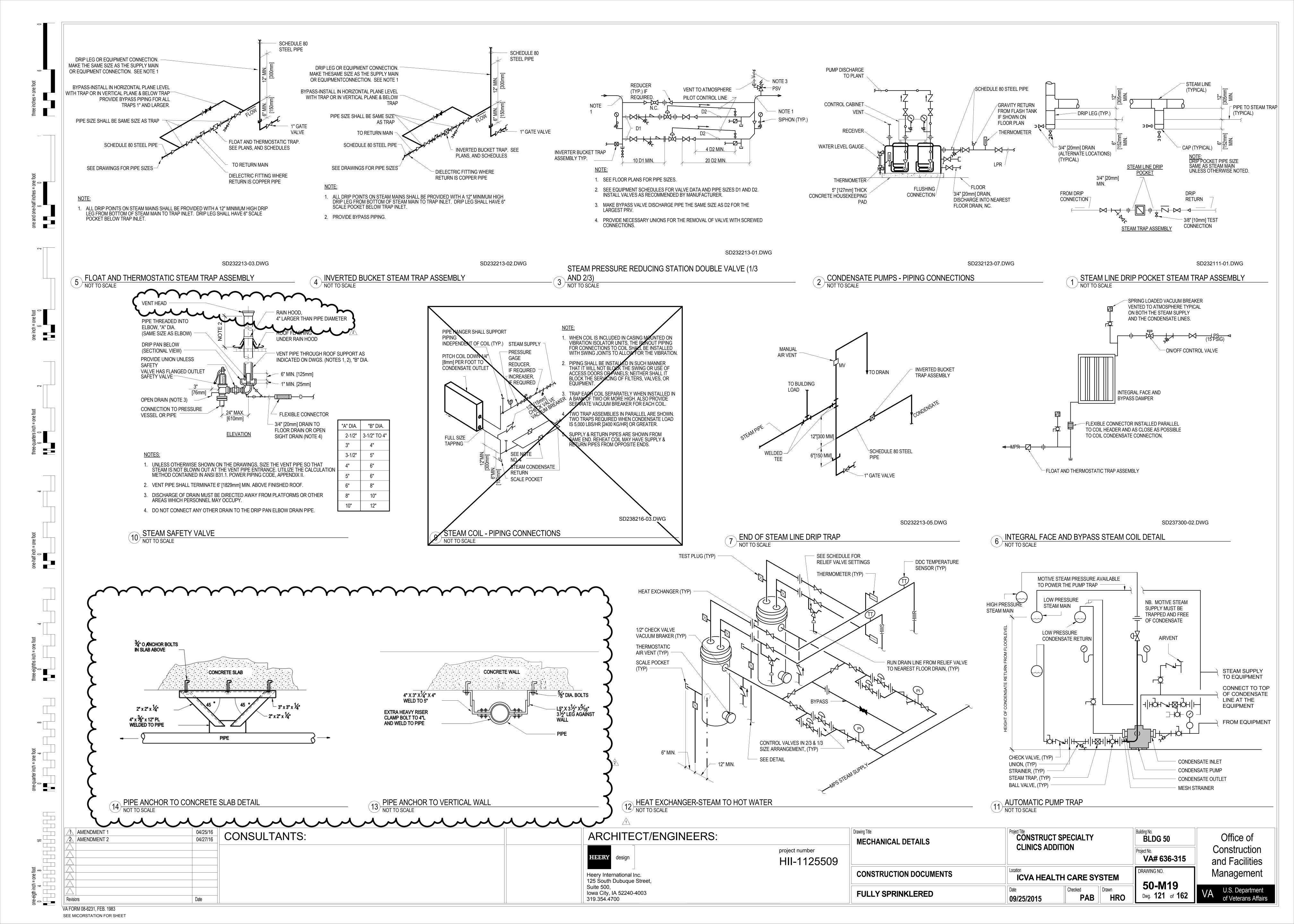
					CAPACITY	CAPACITY			RECEIV	ER DATA			MOT	OR DATA	A		BASIS OF DESIGN	
TAG	FINAL LABEL	LOCATION	SYSTEM	TYPE	COND LOAD	PER PUMP	DISCH. PRESS	SIZE	INLET SIZE	DISCH SIZE	VENT SIZE	QTY	HP F	RPM V	/OLT	PH	MANUFACTURER AND	NOTES
<b>\</b>					LB/HR	(GPM)	(PSIG)	(GAL)	(IN)	(IN)	(IN)						MODEL NUMBER	
50CP-B1	50-CP-011-1	MECH-011	PRIMARY PUMP	DUPLEX	12,900	75	50	75		2(2)	2 1/2	2		3450	460	3	DOMESTIC PUMPS 75CB77-50	1,2,3,4
50CP-B2	0-CP-011-2	MECH-011	LOCAL PUMP	DUPLEX	11,250	45	25	52	3	2 (1 1/2)	1 1/2	2	1 3	3450	460	3	DOMESTIC PUMPS 52CB45-25	1,2,3
					W				W					人	ہر			

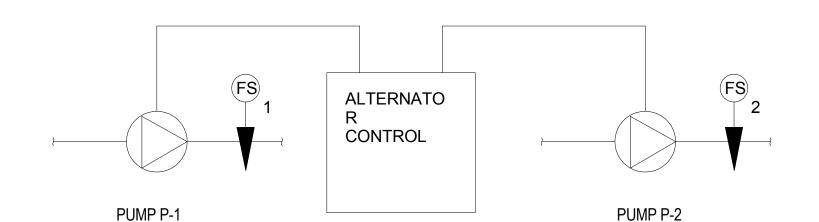
- 1. PROVIDE WITH HIGH LEVEL FLOAT SWITCH, THERMOMETER, GAUGE GLASS, DISCHARGE PRESSURE GUAGE, BASKET STRAINER, SUCTION ISOLATION VALVES.
  2. STAINLESS STEEL RECIEVER TANK, BRONZE IMPELLER, BRONZE FITTED WITH MECHANICAL SHAFT SEALS.

REVISE ENTIRE SHEET 3. NEMA 1 DUPLEX PANEL WITH MAGNETIC STARTER, MAIN THRU THE DOOR DISCONNECT, CIRCUIT BREAKERS, LIGHTED SELECTOR SWITCHES TERMINAL STRIP.
4. CONDENSATE LOAD INCLUDES 1,600 LB/HR FOR FUTURE CAPACITY.

Building No.

BLDG 50 Project Title
CONSTRUCT SPECIALTY ∕↑ AMENDMENT 1 CONSULTANTS: ARCHITECT/ENGINEERS: Office of 2 AMENDMENT 2 MECHANICAL EQUIPMENT **CLINICS ADDITION** Construction **SCHEDULES** project number HIEERY design VA# 636-315 and Facilities HII-1125509 DRAWING NO. Management CONSTRUCTION DOCUMENTS Heery International Inc. 125 South Dubuque Street, **ICVA HEALTH CARE SYSTEM** 50-M15 Suite 500, VA U.S. Department of Veterans Affairs lowa City, IA 52240-4003 **FULLY SPRINKLERED** Dwg. **117** of **162** 09/25/2015 319.354.4700





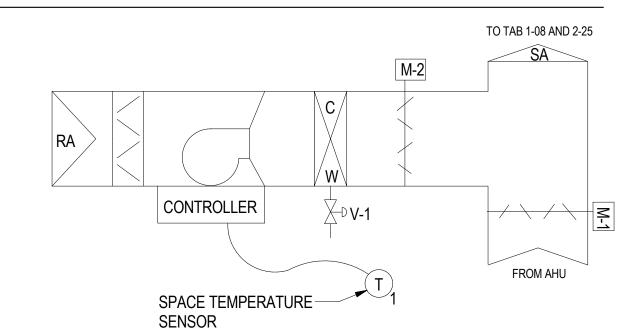
#### POINTS LIST

OCCUPANCY SCHEDULE:				HAR	DWARE	. (	1								S	OFT	WAR	Ε			
		l	INPU	IT			OL	TPU	Γ												
NIGHT SETBACK SCHEDULE:	DI	GITAL	_	AN	ALOG	DI	GITAL	Al	NALO(	G	ALA	RMS		1)	API	PLIC	ATIO	N PR	ROGRA	AMS	2
NOTES:  1. ALL HARDWARE AND ALARM POINTS SHALL BE REPRESENTED ON THE GRAPHICS DISPLAY  2. ALL APPLICATION PROGRAMS SHALL BE FULLY FUNCTIONAL USING DATA APPLICABLE TO THIS PROJECT.	HAND/OFF/AUTO	CURRENT SENSING RELAY		ENTERING WATER PRESSURE	LEAVING WATER PRESSURE	START/STOP	STATUS				HIGH PRESSURE	LOW PRESSURE	FAILURE TO START		RUN TIME RECORD	MAINTENANCE MANAGEMENT	AUTOMATIC ALTERNATING/SEQUENCING				
ALL CP-# PUMPS	•	•		•	•	•	•				•	•	•		•	•	•				

## SEQUENCE OF OPERATION

- 1. FLOAT SWITCH TO ENGAGE THE ALTERNATOR TO START LEAD PUMP AND RUN CONTINUOUSLY UNTIL IT IS SHUT DOWN. UPON SHUTDOWN, THE LAG PUMP SHALL BE SWITCHED TO LEAD POSITION.
- 2. A CURRENT SENSING RELAY SHALL VERIFY PUMP OPERATION. IF FLOW IS NOT INDICATED AFTER THE RUN COMMAND, A FLOW ALARM SHALL BE INDICATED AND THE ALTERNTOR SHALL CAUSE THE LAG PUMP TO START.

## STEAM CONDENSATE PUMP



## POINTS LIST

					HARD	WARE	1	)			SOFTWARE										
OCCUPANCY SCHEDULE:			INPU <sup>-</sup>	7				OUTF	PUT							SUFIN	VVARI	Ξ			
NIGHT SETBACK SCHEDULE:		DIGITA	AL	ANA	LOG	[	DIGIT	AL	Al	NALOG		ALAF	RMS	1		J	APPL	.ICATIO	N PROC	SRAMS	2
NOTES:  1. ALL HARDWARE AND ALARM POINTS SHALL BE REPRESENTED ON THE GRAPHICS DISPLAY  2. ALL APPLICATION PROGRAMS SHALL BE FULLY FUNCTIONAL USING DATA APPLICABLE TO THIS PROJECT.  EQUIPMENT DESCRIPTION	START/STOP	HIGH TEMPERATURE SAFETY SWITCH	AID EI OW BATE	ROOM SET POINT ADJUSTMENT		STATUS DISCHARGE TEMPERATI IRE		CONTROL DAMPER STATUS			FAILURE TO START	HIGH LEMPERATURE (ROOM)	CONDENSATE OVERFLOW		RUN TIME RECORD	MAINTENANCE MANAGEMENT	NIGHT SETBACK (OCCUPIED/UNOCCUPIED)	TREND LOG ANALYSIS (DISCHARGE TEMP)			
FAN COIL UNIT: 50-FC-B4	•	•	•			• •						• •			•	•	•	•			
CONTROL DAMPER: M-1, M-2								•													

## SEQUENCE OF OPERATION

TYPICAL TAB SEQUENCE.

Date

VA FORM 08-6231, FEB. 1983

SEE MICORSTATION FOR SHEET

- 1. THIS SYSTEM SHALL SERVE AS BACKUP COOLING FOR LEVEL 1 AND 2 ELECTRICAL, COMM. AND IT ROOMS. DAMPER M-1 SHALL BE NORMALLY OPEN AND DAMPER M-2 SHALL BE NORMALLY CLOSED. THE SCHEDULED TAB SHALL PROVDE VENTILATION AND FIRST STAGE OF COOLING FOR THE ROOM AND SHALL MODULATE PER
- 2. BACKUP COOLING MODE: WHEN AH50-B1 IS IN THE DISABLED UNOCCUPIED STATE DAMPER M-1 SHALL CLOSE, DAMPER M-2 SHALL OPEN, THE FAN COIL SHALL ENERGIZE AND THE CHILLED WATER VALVE SHALL MODULATE TO MAINTAIN DISCHARGE AIR TEMPERATURE SET POINT. FAN COIL SHALL CONTINUE TO OPERATE UNTIL SPACE TEMPERATURE FALLS BELOW SET POINT, AT WHICH TIME THE FAN COIL SHALL DE-ENERGIZE AND CLOSE CHILLED WATER VALVE.
- 3. DURING BACKUP COOLING MODE THE FAN SHALL OPERATE AT LOW SPEED TO CIRCULATE AIR WITHIN ZONE. IF ZONE SETPOINT CAN NOT BE MET AFTER 5 MINUTES THEN THE FAN SHALL MODULATE UP TO FULL SPEED UNTIL SET POINT IS MET FOR 2

319.354.4700

- MINUTES. . FAN COIL SHALL SHUT DOWN ON FIRE ALARM.
- 6. UNIT SHALL SHUST DOWN AND VALVES SHALL CLOSE UPON CONDENSATE OVERFLOW

#### TO HUMIDITY CONTROL MANUFACTURER'S CONTROLS POINTS LIST SOFTWARE OCCUPANCY SCHEDULE: ALARMS (1) APPLICATION PROGRAMS (2) DIGITAL ANALOG NIGHT SETBACK SCHEDULE: analog ALL HARDWARE AND ALARM POINTS SHALL BE REPRESENTED ON THE GRAPHICS DISPLAY ALL APPLICATION PROGRAMS SHALL BE FULLY FUNCTIONAL USING DATA APPLICABLE TO THIS PROJECT. **EQUIPMENT DESCRIPTION** SH-1, SH-2 SEQUENCE OF OPERATION 6. WHEN RETURN AIR RELATIVE HUMIDITY (RH-1) FALLS BELOW SETPOINT, 1. WHEN AIR HANDLING UNIT IS RUNNING, THE HUMIDIFIER AND ITS CONTROLS THE NORMALLY CLOSED HUMIDIFIER CONTROL VALVE (V-1) SHALL SYSTEM SHALL BE ENABLED. MODULATE TOWARDS ITS FULL OPEN POSITION AS REQUIRED 2. DURING NORMAL OPERATION THE HUMIDIFIER SHALL BE CONTROLLED

- HUMIDIFIER DISPERSION TUBE

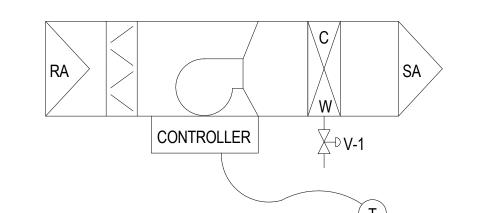
IN AIR HANDLER

- BY THE HUMIDIFIER MANUFACTURERS PACKAGED CONTROL SYSTEM, INCLUDING ALL CONTROL VALVES AND SAFETY DEVICES.
- 3. AUXILARY POINT CONTACTS SHALL BE PROVIDED TO PASS ALL HUMIDIFIER CONTROL PANEL ALARMS TO BAS.
- 4. THE HUMIDIFIER OPERATING SET POINTS SHALL BE REMOTELY SET THROUGH THE BAS.

RETURN AIR SENSOR

- 5. HIGH AND LOW SYSTEM PRESSURE(S) ALARMS SHALL BE SIGNALED TO BAS.
- TO MAINTAIN DESIRED RELATIVE HUMIDITY LEVELS. A DUCT MOUNTED RELATIVE HUMIDITY SENSOR (RH-2) DOWNSTREAM OF THE HUMIDIFIER SHALL LIMIT THE MAXIMUM RELATIVE HUMIDITY IN THE DUCTWORK. SHOULD THE DUCT RELATIVE HUMIDITY
- EXCEED THE SETPOINT, THE LIMIT CONTROL SHALL OVERRIDE THE SPACE CONTROL TO LIMIT DUCT RELATIVE HUMIDITY LEVELS. 8. HIGH AND LOW LEVEL DUCT ALARMS SHALL BE INDICATED IF THE HUMIDITY (RH-2) LEVEL IN THE DUCTWORK EXCEEDS SETPOINTS.

# **HUMIDIFIER (STEAM)**



SPACE TEMPERATURE -

## DOINITO LICT

NOTES:  1. ALL HARDWARE AND ALARM POINTS SHALL BE REPRESENTED ON THE GRAPHICS DISPLAY	POINTS LIST				SENS	OR													
NIGHT SETBACK SCHEDULE:  DIGITAL  NOTES:  ALL HARDWARE AND ALARMS EAD ALARMS PRILICABLE TO THIS PROJECT.  DIGCHANGE TEMPERATURE (ROOW)  NIGHT SETBACK (OCCUMEDIAN)  LINE HIGH LEMPERATURE (ROOW)  NIGHT SETBACK SCHEDULE  PAIL HIGH LEMPERATURE (ROOW)  NIGHT SETBACK (OCCUMEDIAN)  LOW LEMPERATURE (ROOW)  NIGHT SETBACK (OCCUMEDIAN)  NIGHT SETBACK SCHEDULA  NIGHT SETBACK SCHEDULA  NIGHT SETBACK SCHEDULA  NIGHT SETBACK (OCCUMEDIAN)  NIGHT SETBACK SCHEDULA  NIGHT SETB					ŀ	IARDWAR	RE (	1							COET	T\A/A	DE		
STATUS  NOTES:  1. ALL HACH TEMPERATURE SAFETY SWITCH  RUN TIME TEMPERATURE (ROOM)  MAINTENANCE MANAGE TEMPERATURE (ROOM)  MAINTENANCE MANAGEMENT  TREND LOG ANALYSIS (DISCHARGE TEMP)  TREND LOG ANALYSIS (DISCHARGE TEMP)  TREND LOG ANALYSIS (DISCHARGE TEMP)  THEND LOG ANALYSIS (DISCHARGE TEMP)	OCCUPANCY SCHEDULE:		IN	IPUT				OUTF	PUT						50F1	VVAI	KE		
STATUS  STATUS  AIR FLOW RATE  ROOM SET POINT ADJUSTMENT  TO THICH TEMPERATURE (ROOM)  LOW TEMPERATURE (ROOM)  LOW TEMPERATURE (ROOM)  LOW TEMPERATURE (ROOM)  CONDENSATE OVERFLOW  MIGHT SETBACK (OCCUPIED/UNOCCUPIED)  TREND LOG ANALYSIS (DISCHARGE TEMP)  TREND LOG ANALYSIS (DISCHARGE TEMP)	NIGHT SETBACK SCHEDULE:		DIGITAL		ANALOG	<b>3</b>	DI	GITAL		ANALOG		ALARMS 1			APPLICATION PROGRAMS 2				
FAN COIL UNIT: 50-FC-B3	1. ALL HARDWARE AND ALARM POINTS SHALL BE REPRESENTED ON THE GRAPHICS DISPLAY  2. ALL APPLICATION PROGRAMS SHALL BE FULLY FUNCTIONAL USING DATA APPLICABLE TO THIS PROJECT.	START/STOP	HIGH TEMPERATURE SAFETY SWITCH	AIR FLOW RATE	ROOM SET POINT ADJUSTMENT	STATUS	DISCHARGE TEMPERATURE	AIR FLOW RATE			은	HIGH TEMPERATURE (ROOM)	LOW TEMPERATURE (ROOM)		RUN TIME RECORD MAINTENANCE MANAGEMENT	NICHT SETRACK (OCC.) IPIED// INOCC.) IPIED)	TREND LOG ANALYSIS (DISCHARGE TEMP)		
	FAN COIL UNIT: 50-FC-B3	•	•	•	•	•	•	•			•	•	•	•	• •	•	•		

## SEQUENCE OF OPERATION

- THIS SYSTEM SHALL SERVE AS SECONDARY COOLING FOR ELEVATOR EQUIPMENT. THE SCHEDULED TAB SHALL PROVDE VENTILATION AND FIRST STAGE OF COOLING FOR THE ROOM AND SHALL MODULATE PER TYPICAL TAB SEQUENCE. IF SPACE TEMPERATURE FAILS TO MAINTAIN SETPOINT FOR 15 MINUTES (ADJ) AND/OR THE SPACE TEMPERATURE EXCEEDS 10 DEG F ABOVE SETPOINT, THEN FAN COIL
- SHALL START COOLING MODE. 2. COOLING MODE: WHEN THE ABOVE CONDITIONS ARE MET THE FAN SHALL ENERGIZE AND THE CHILLED WATER VALVE SHALL MODULATE TO MAINTAIN DISCHARGE AIR TEMPERATURE SET POINT. FAN COIL SHALL CONTINUE TO OPERATE UNTIL SPACE TEMPERATURE FALLS BELOW SET POINT, AT WHICH TIME THE FAN COIL SHALL DE-ENERGIZE AND CLOSE CHILLED WATER VALVE.

**FULLY SPRINKLERED** 

- DURING COOLING MODE THE FAN SHALL OPERATE AT LOW SPEED TO CIRCULATE AIR WITHIN ZONE. IF ZONE SETPOINT CAN NOT BE MET AFTER 5 MINUTES THEN THE FAN SHALL MODULATE UP TO FULL SPEED UNTIL COOLING MODE IS DEACTIVATED.
- FAN COIL SHALL SHUT DOWN ON FIRE ALARM.
- 6. UNIT SHALL SHUT DOWN AND VALVES SHALL CLOSE UPON CONDENSATE OVERFLOW

PAB

### CHILLED WATER FAN COIL - BACKLIP (WITH AH50-B1)

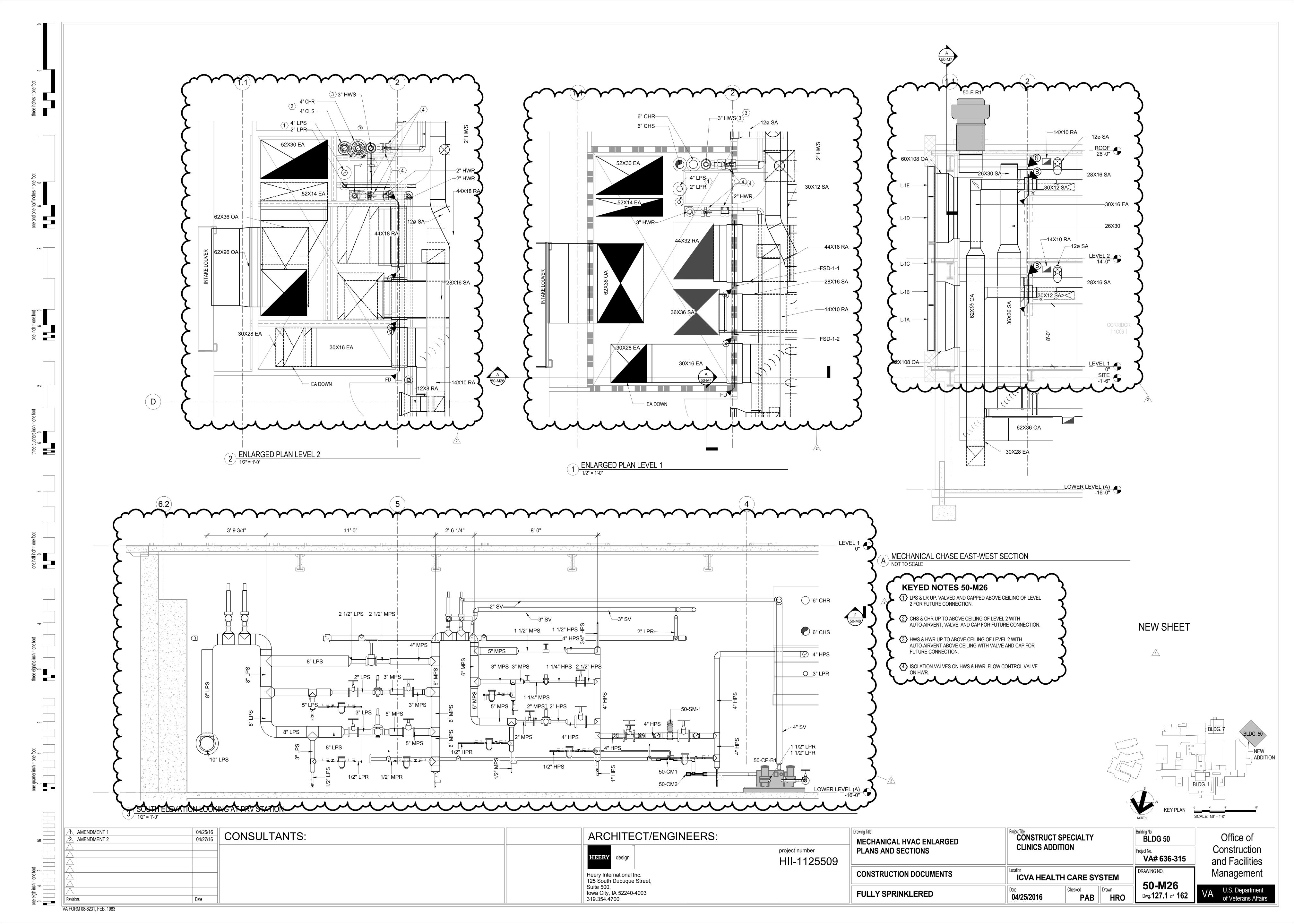
	CHILLED WATE	R FAN COIL - BACKUP (WITH AH50-B1)		CHILLED WATER FAN COIL - ELEVA	ATOR MACHINE ROOM
AMENDMENT 1 AMENDMENT 2	04/25/16 04/27/16	CONSULTANTS:	ARCHITECT/ENGINEERS:		Drawing Title  SEQUENCE OF OPERA
			ITIEIERY design	project number HII-1125509	MECHANICAL SYSTEM
			Heery International Inc. 125 South Dubuque Street,		CONSTRUCTION DOCU
7			Suite 500, Iowa City, IA 52240-4003		FULLY SPRINKLERE

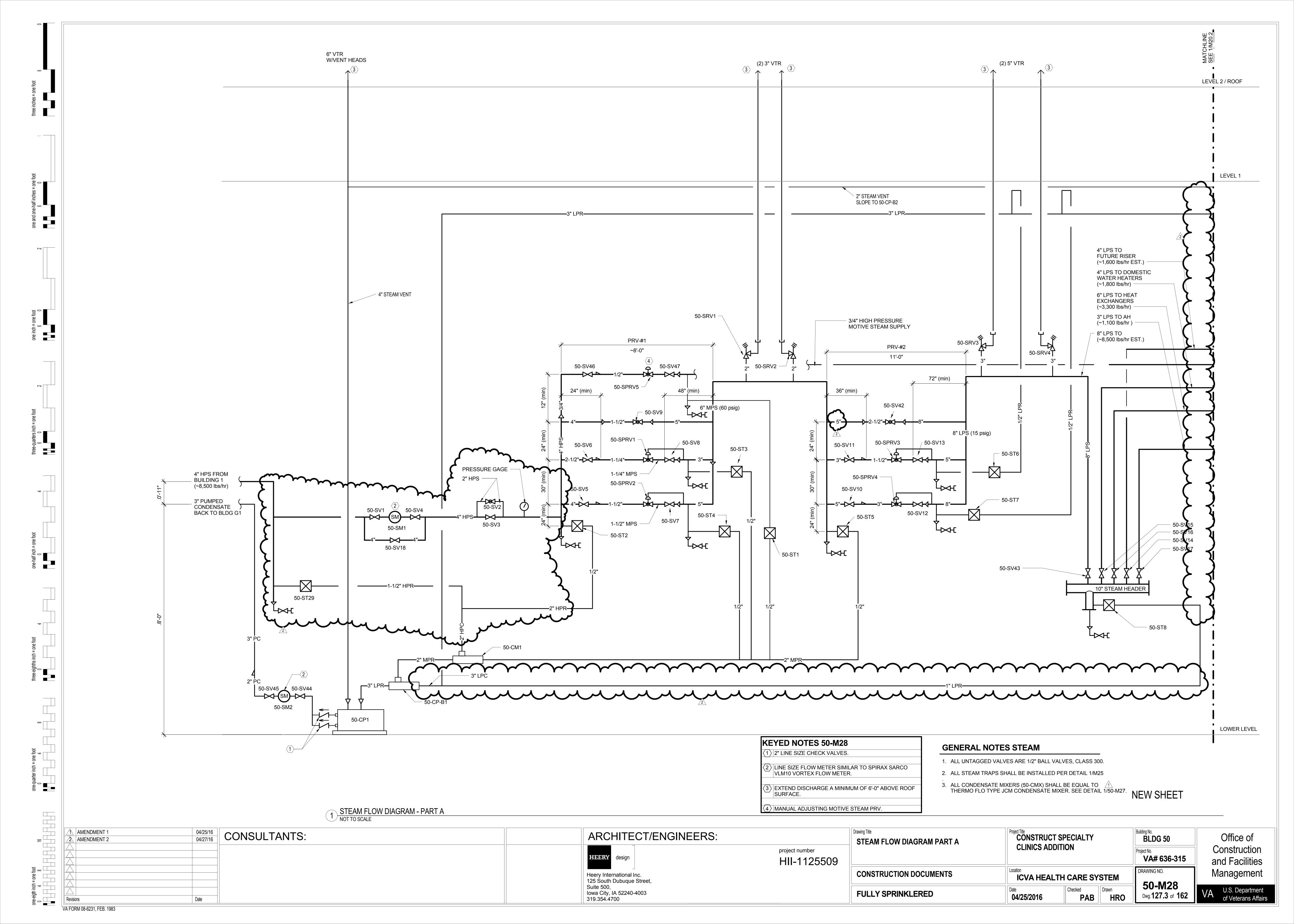
Drawing Title  SEQUENCE OF OPERATIONS	Project Title CONSTRUCT SPECIALTY CLINICS ADDITION	Building No.  BLDG 50
MECHANICAL SYSTEMS	CLINICS ADDITION	Project No.  VA# 630
CONSTRUCTION DOCUMENTS	ICVA HEALTH CARE SYSTEM	DRAWING NO.

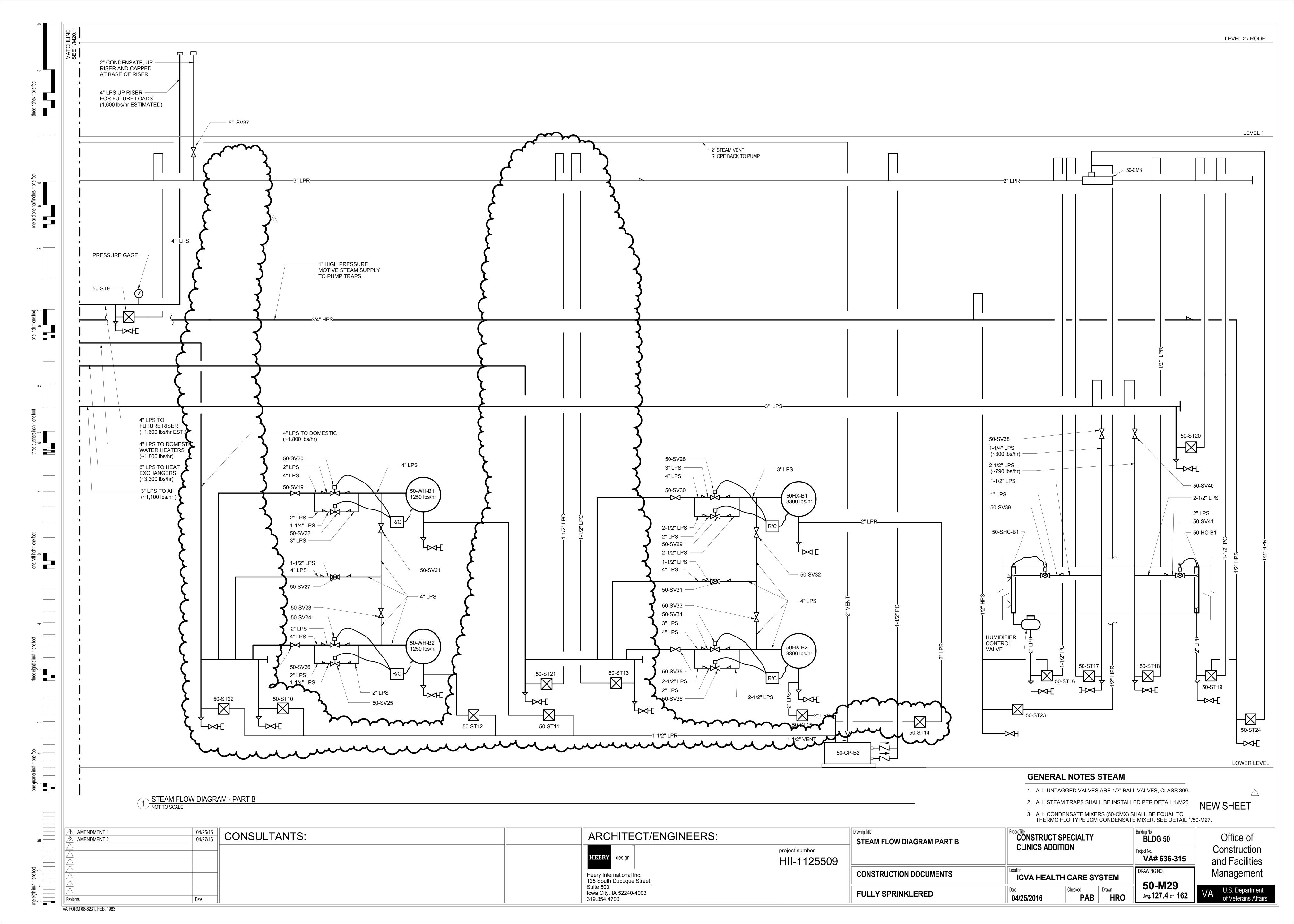
09/25/2015

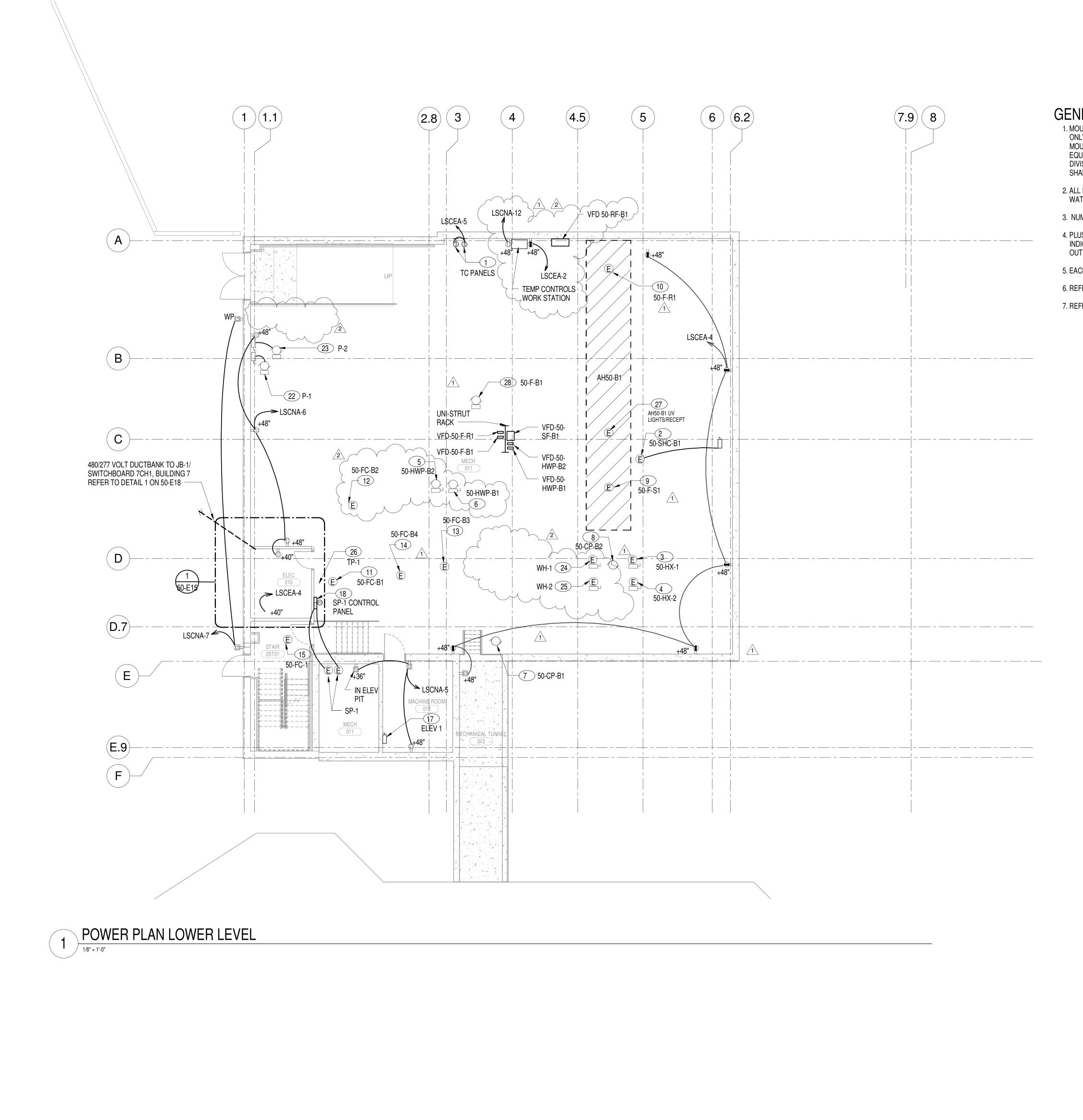
Office of Construction and Facilities Management

U.S. Department of Veterans Affairs









## GENERAL ELECTRICAL NOTES:

- 1. MOUNTING HEIGHTS SHOWN ON ELECTRICAL DRAWINGS ARE FOR COORDINATION PURPOSES ONLY. REFER TO ARCHITECTURAL EQUIPMENT PLANS AND ELEVATIONS FOR EXACT EQUIPMENT MOUNTING, FINAL LOCATIONS OF SWITCHES, RECEPTACLES, ETC., STANDARD MOUNTING HEIGHTS EQUIPMENT DESCRIPTIONS AND EQUIPMENT NUMBERS. IN THE EVENT OF A DISCREPANCY BETWEEN DIVISIONS, THE CONTRACTOR SHALL PROVIDE DEVICES SHOWN IN BOTH DIVISIONS. THE CONTRACTOR SHALL NOTIFY THE PROJECT MANAGER OF ALL DISCREPANCIES.
  - 2. ALL RECEPTACLES LOCATED IN UTILITY ROOMS, TOILET ROOMS, ETC OR WITHIN 6' OF ANY SINK, FAUCET, OR WATER SOURCE SHALL BE GFI TYPE.
- 3. NUMBER AT FIXTURES OR OUTLETS INDICATES PANEL CIRCUIT NUMBER.
- 4. PLUS (+) SIGN WITH DIMENSION AT OUTLET, JUNCTION BOX, OR EQUIPMENT ELECTRICAL CONNECTION INDICATES HEIGHT ABOVE FINISHED FLOOR LINE OR HEIGHT ABOVE FINISHED GRADE TO CENTERLINE OF OUTLET JUNCTION BOX OR ELECTRICAL CONNECTION.
- 5. EACH CIRCUIT SHALL BE PROVIDED WITH A DEDICATED NEUTRAL CONDUCTOR.
- 6. REFER TO SHEET 50-E18, MOTOR AND EQUIPMENT WIRING SCHEDULE, FOR 2 DIGIT EQUIPMENT NUMBERS.
- 7. REFER TO SHEET 50-A26, EQUIPMENT SCHEDULE, FOR 4 DIGIT ARCHITECTURAL NUMBERS.

BLDG. 50

NEW ADDITION

SCALE: 1/8" = 1'-0"

⚠ Amendment 1       4/25/16         ⚠ Amendment 2       04/27/16	CONSULTANTS:	ARCHITECT/ENGINEERS:		Drawing Title POWER PLAN LOWER LEVEL	Project Title CONSTRUCT SPECIALTY	Building No.  BLDG 50	Office of
			oroject number HII-1125509		CLINICS ADDITION	Project No. <b>VA# 636-315</b>	Construction and Facilities
		Heery International Inc. 125 South Dubuque Street,		CONSTRUCTION DOCUMENTS	ICVA HEALTH CARE SYSTEM	DRAWING NO. 50-E3	Management
Revisions Date		Suite 500, lowa City, IA 52240-4003 319.354.4700		FULLY SPRINKLERED	Date         Checked         Drawn           09/25/2015         RAL         DAS	Dwg. of	VA U.S. Department of Veterans Affairs